



# JULIUS BLUM & CO., Inc.

*B*  
& CO.

532-540 WEST 22<sup>nd</sup> STREET  
NEW YORK, N.Y.







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## JULIUS BLUM & CO., Inc.

OFFICES and WAREHOUSE

532-540 WEST 22nd STREET

NEW YORK 11, N. Y.

Telephone: WAtkins 9-7042

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Cable Address: JULBLUM, NEW YORK

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JULIUS BLUM & CO., Inc., N. Y.

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RAILINGS

TREILLAGE

MOULDINGS

SADDLES

TUBING & SHAPES

ORNAMENTS

MISCELLANEOUS

A. I. A. File No. 15

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## FOREWORD

**I**N presenting this catalog, Julius Blum & Co., Inc. offers a line of products applicable to innumerable requirements of the Ornamental and Industrial Metal Working Trades.

"JULIUS BLUM" products have for many years been listed as standard specifications by leading Architects and Ornamental Metal Manufacturers.

Over 35 years of experience as a source of supply has enabled Julius Blum & Co., Inc. to build up an enviable record for service and cooperation, and to contribute vastly toward raising the standards of our trade and affording helpful assistance with its problems.

## GENERAL INFORMATION

The various shapes and items illustrated in this catalog are shown in full size or with dimensions clearly given. Approximate weights are stated in pounds per lineal foot.

Due to technical difficulties and limitations in manufacturing, all dimensions, weights and general specifications are subject to change.

Quotations and price lists are subject to change without notice.

Orders are usually shipped within 24 hours after receipt, and all shipments are made F.O.B. New York, N. Y.



## RAILINGS

THIS section illustrates the many shapes and items which Julius Blum & Co., Inc. carries in stock for use in railing construction.

These products have a wide scope of applications, not only on railings, but for balconies, grilles, window guards, fences and many varied types of ornamental construction.

In making these products available, we offer the architect and the metal fabricator a choice of designs to permit a wide application and to conform with many styles of architecture and building construction.

Many decorative and elaborate designs can be obtained by using combinations of our stock items. Our designs permit attractive work to be produced without delay at a moderate cost.

The products presented have been designed to permit economical assembly and construction. The type of material is in every case suited for the use of the product.

Julius Blum & Co., Inc. is prepared to advise you and offer suggestions as to design, construction or finishing on all forms of ornamental construction. You are welcome to submit your problem to us if assistance or additional information is required.

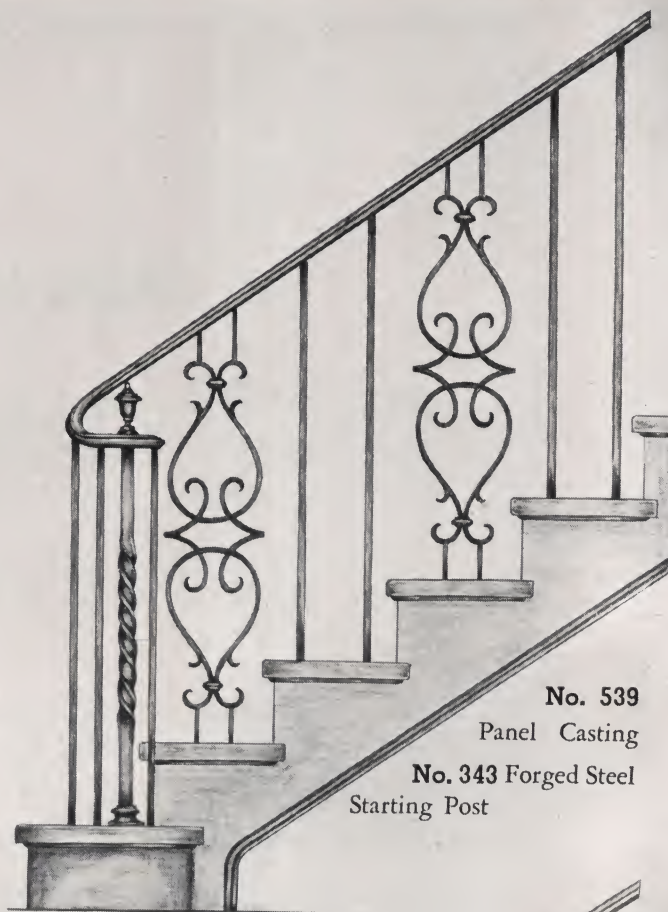
For additional suggestions on designs write for our Booklet "RAILINGS."



RAILINGS CONSTRUCTED WITH STOCK MATERIALS  
ALUMINUM, BRONZE OR STEEL HANDRAILS WITH MATCHED FITTINGS



No. 325  
Forged Spindle  
No. 334 Cast Iron  
Starting Post



No. 539  
Panel Casting  
No. 343 Forged Steel  
Starting Post



No. 531  
Ornamental  
Baluster Bar  
No. 335 Cast Iron Start-  
ing Post



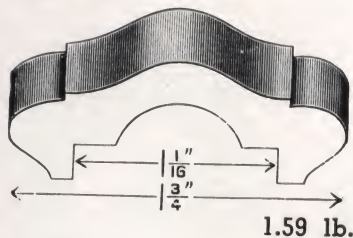
No. 530  
Ornamental  
Baluster Bar  
No. 331 Forged Steel  
Starting Post



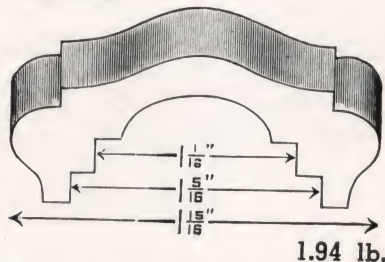
## HANDRAILS WITH MATCHED FITTINGS

### ROLLED STEEL

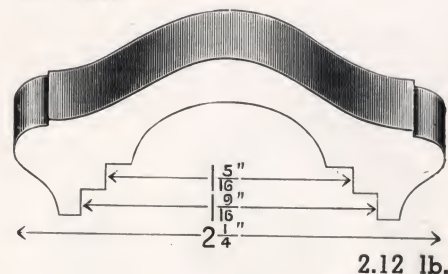
No. 4429



No. 4428

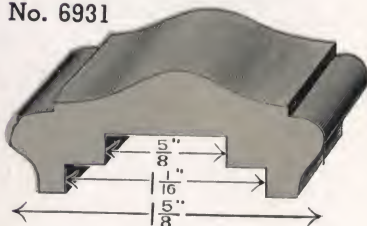


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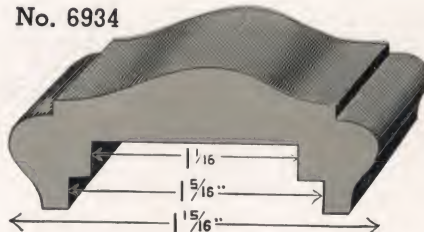


### ARCHITECTURAL ALUMINUM

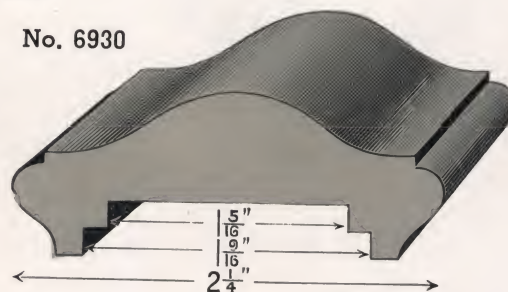
No. 6931



No. 6934



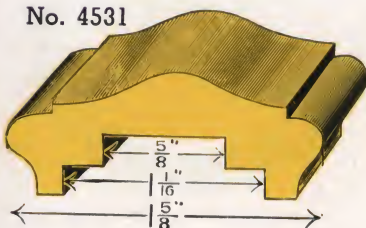
No. 6930



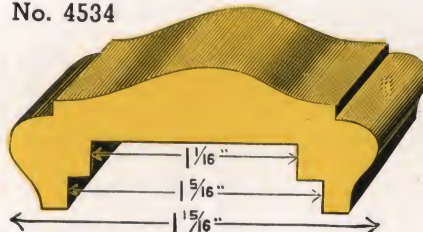
Architectural Aluminum and Bronze Handrails are annealed to facilitate bending and curving.

### ARCHITECTURAL BRONZE

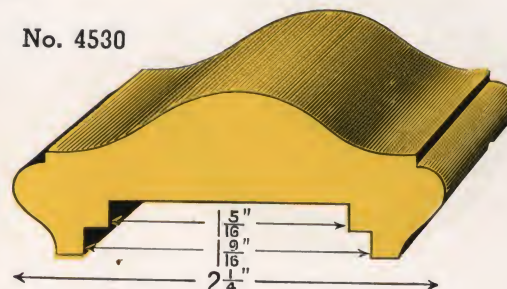
No. 4531



No. 4534

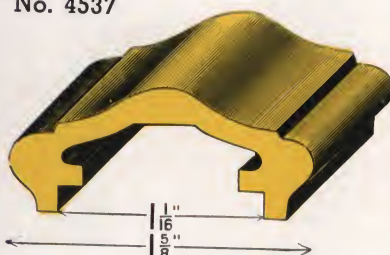


No. 4530

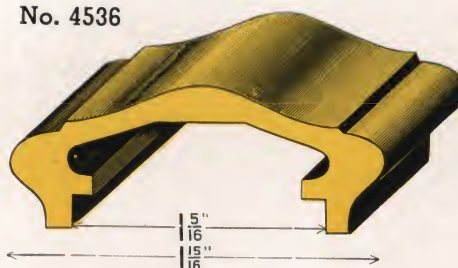


No. 4531, 4534 and 4530 Handrails illustrated above are especially suited for bending and curving. No. 4537, 4536 and 4532 Handrails illustrated below have the same outside profile and match perfectly the corresponding handrails shown above. They are lighter in weight, therefore more economical for use in straight runs when bending and curving is not required.

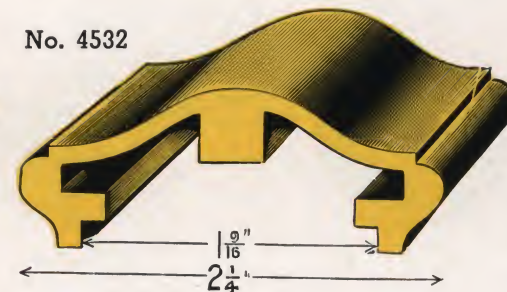
No. 4537



No. 4536



No. 4532



### HANDRAIL FITTINGS

LATERAL SCROLLS  
LAMB TONGUES  
CORNER BENDS

VOLUTES  
URN BASES  
CENTERS

TERMINAL ENDS  
CORNER PIECES  
WALL BRACKETS

For complete description of fittings carried in stock see pages 8, 9 and 13



## HANDRAIL FITTINGS

TO MATCH ROLLED STEEL, ARCHITECTURAL ALUMINUM AND  
ARCHITECTURAL BRONZE HANDRAILS, SHOWN ON PAGE 7

### MOULDED LATERAL SCROLL



*Left Hand*

All aluminum and bronze fittings are highly polished and match the color and profile of our handrails. Fittings for steel handrails are cast from heat treated ferrous alloy and may be bent to conform to bevel required.



*Right Hand*

SIZE OF SCROLL MAY BE VARIED BY CUTTING AND JOINING HANDRAIL  
AT DESIRED POINT

### FLAT BAR LATERAL SCROLL



To fit underside of moulded lateral scroll. Three sizes:

1" x  $\frac{3}{8}$ " Flat  
1 $\frac{1}{4}$ " x  $\frac{3}{8}$ " Flat  
1 $\frac{1}{2}$ " x  $\frac{3}{8}$ " Flat

Made from heat treated ferrous alloy.



### "JUNIOR" LATERAL SCROLL



*Left Hand*



*Right Hand*

To match No. 4429 Steel Handrail only.

FULL SIZE DETAIL  
OF ANY FITTING  
WILL BE SENT ON  
REQUEST.

### CORNER BEND



To match bronze and aluminum handrails only.

WHEN ORDERING STATE NUMBER OF HANDRAIL AND MATERIAL,  
BRONZE, ALUMINUM OR STEEL



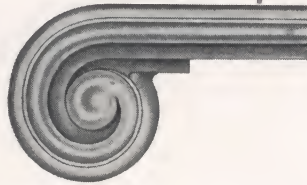
## HANDRAIL FITTINGS

TO MATCH ROLLED STEEL, ARCHITECTURAL ALUMINUM AND  
ARCHITECTURAL BRONZE HANDRAILS, SHOWN ON PAGE 7

STRAIGHT LAMBS TONGUE



VOLUTE



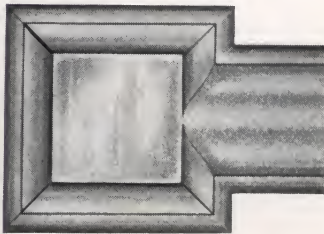
BEVEL LAMBS TONGUE



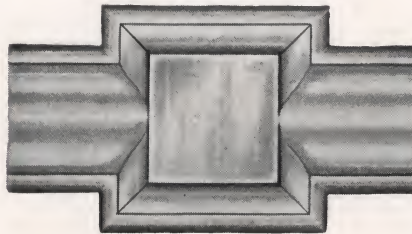
Bronze and Aluminum Fittings are highly polished and match the color and profile of our handrails.

Fittings to match our Rolled Steel Handrails are made from heat treated ferrous alloy.

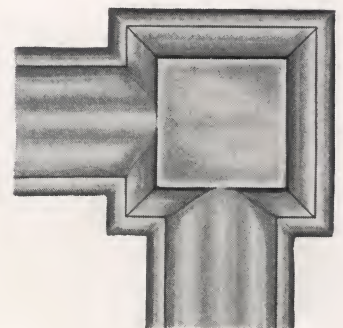
END PIECE



CENTER PIECE



CORNER PIECE



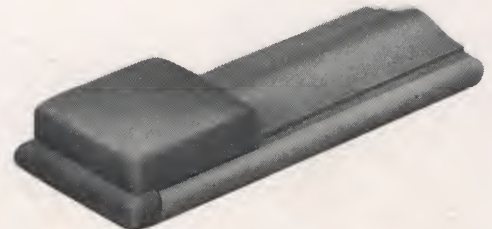
HANDRAIL BRACKET



For complete details of bracket see page 13

FULL SIZE DETAIL  
OF ANY FITTING  
SHOWN, WILL BE  
SENT ON REQUEST

URN BASE TERMINAL



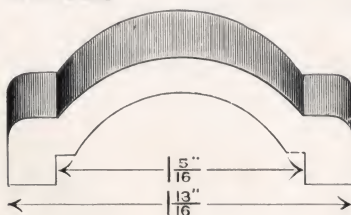
Provides flat surface for mounting urns and terminates contour of handrail which is cut square. May be held in place by screwing on urn to bolt connecting to starting post. Matches No. 4429 steel handrail only.

WHEN ORDERING STATE NUMBER OF HANDRAIL AND MATERIAL,  
BRONZE, ALUMINUM OR STEEL

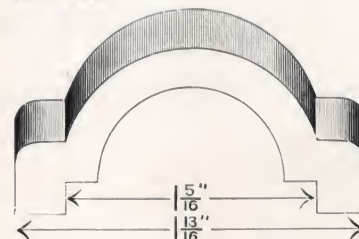


## Rolled Steel Handrails

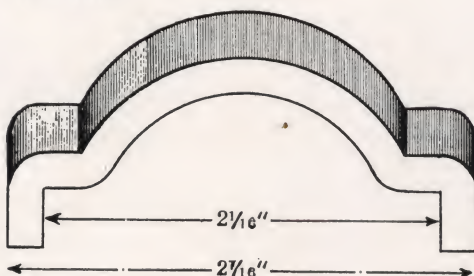
No. 4426



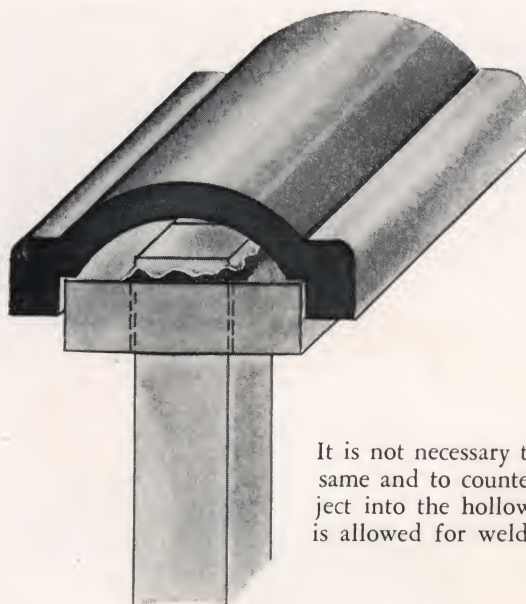
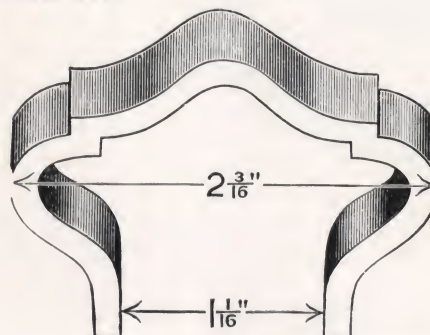
No. 4427



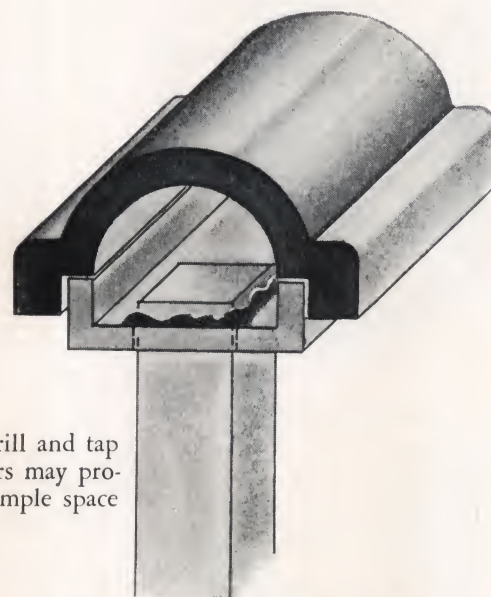
No. 4425



No. 4434

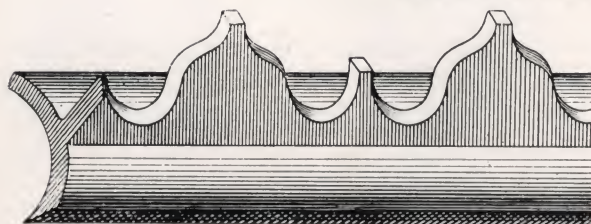


Showing method of constructing railings by using Handrails Nos. 4426 and 4427 with flats or channels on top of baluster bars.



It is not necessary to cut the upright bars exact, to drill and tap same and to countersink the screws. The baluster bars may project into the hollow part underneath the handrail. Ample space is allowed for welding.

## Rolled Steel "Loafers' Rail"



**FLAT BASE**  
(For Flat Surface)

**CURVED BASE**  
(For Pipe or Tubing)

WHEN ORDERING, SPECIFY FLAT OR CURVED BASE

Rolled Steel "LOAFERS' RAIL" or "LOAFERS' CUSHION" affords effective protection against lounging on fences, railings, store fronts, etc. STRONGER AND BETTER IN APPEARANCE THAN CAST IRON.



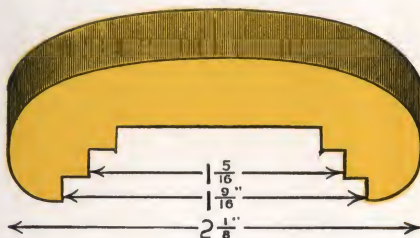
**"LOAFERS' RAIL"**  
applied to round tubing



## Architectural Bronze, Aluminum and Rolled Steel Handrails

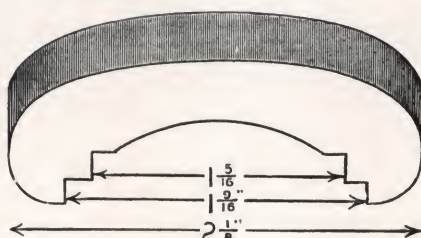
### ARCHITECTURAL BRONZE

No. 4535



### ROLLED STEEL

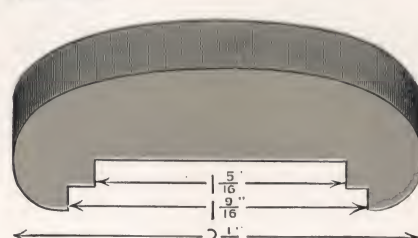
No. 4435



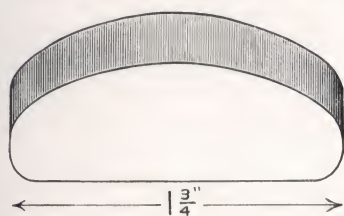
2.63 lb.

### ARCHITECTURAL ALUMINUM

No. 6935

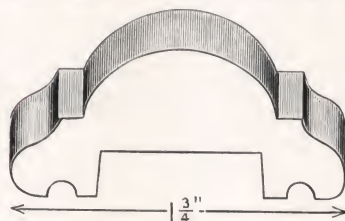


No. 4415 ROLLED STEEL



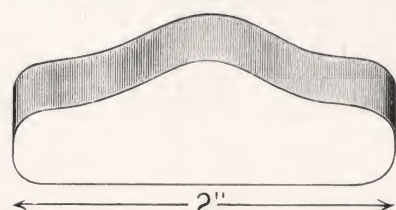
3.04 lb.

No. 4446 ROLLED STEEL



2.18 lb.

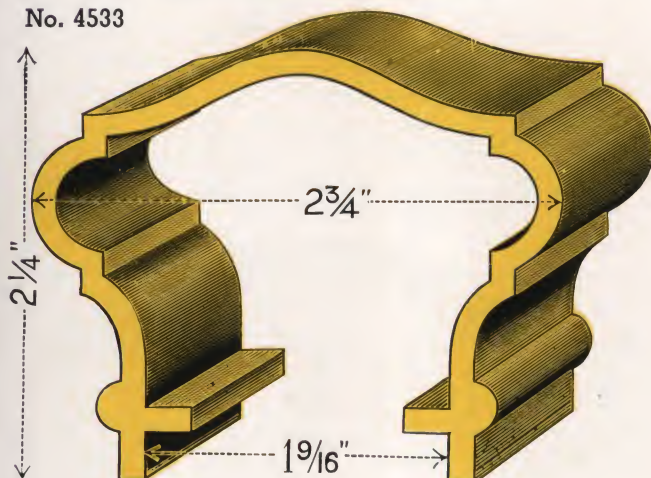
No. 4416 ROLLED STEEL



3.15 lb.

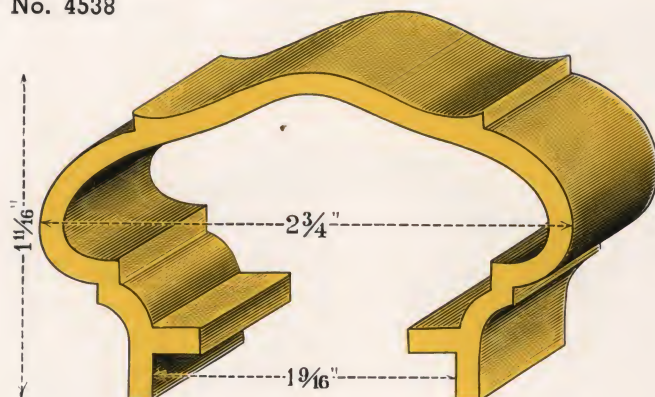
### ARCHITECTURAL BRONZE

No. 4533



### ARCHITECTURAL BRONZE

No. 4538



### ARCHITECTURAL BRONZE AND ALUMINUM CHANNELS



to fit the underside of Handrails

1" x 1/2" x 1/8"  
1 1/4" x 5/8" x 1/8"  
1 1/2" x 5/8" x 1/8"



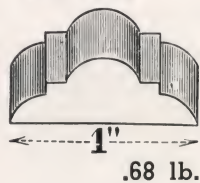
A LARGE VARIETY OF ADDITIONAL CHANNELS ARE CARRIED IN STOCK

See Pages 98, 101, 102

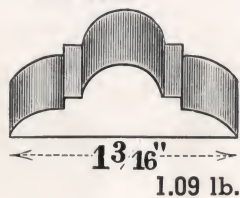


**ROLLED STEEL HANDRAILS**

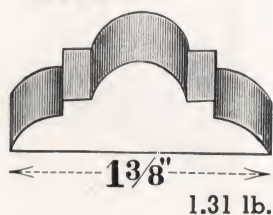
No. 4414



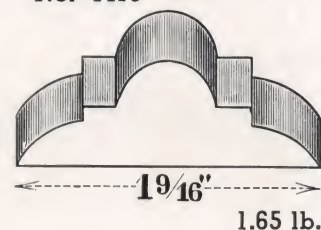
No. 4411



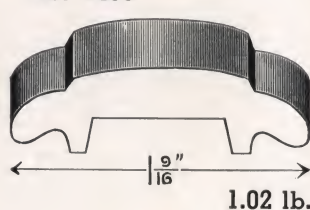
No. 4412



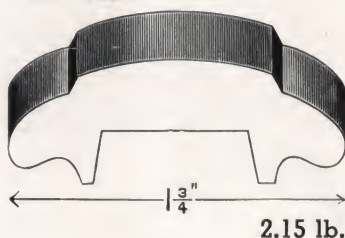
No. 4413



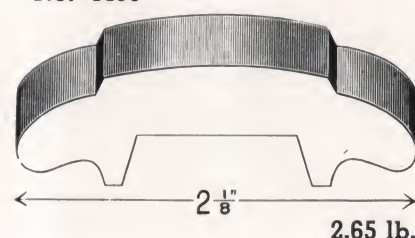
No. 4400



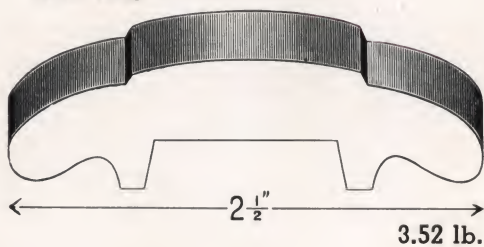
No. 4420



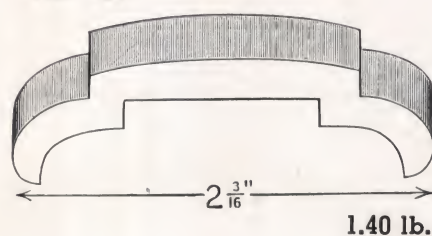
No. 4430



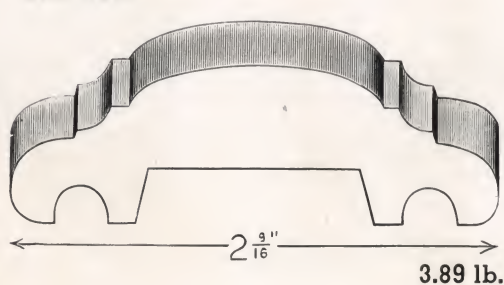
No. 4440



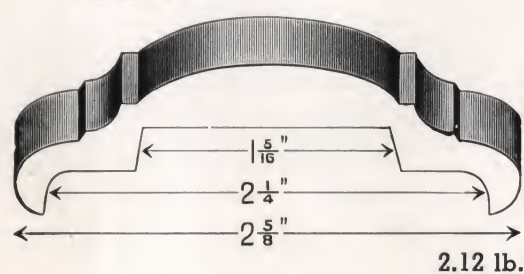
No. 4447



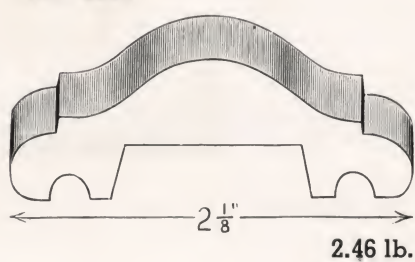
No. 4449



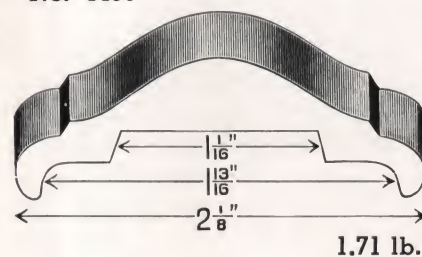
No. 4439



No. 4448

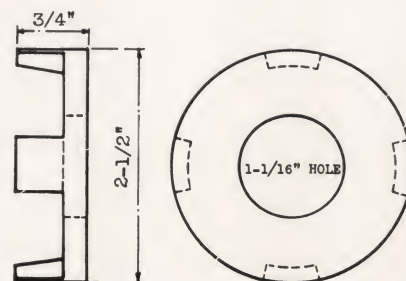
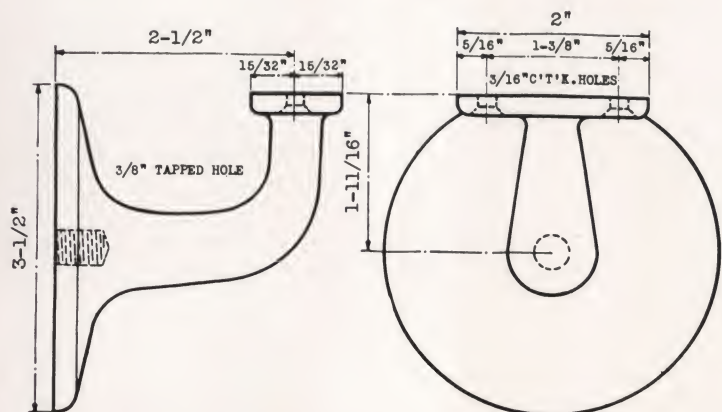


No. 4438



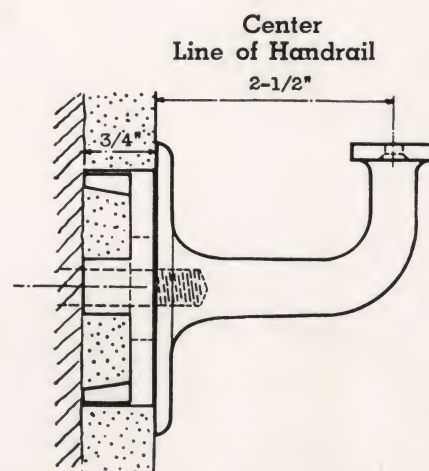
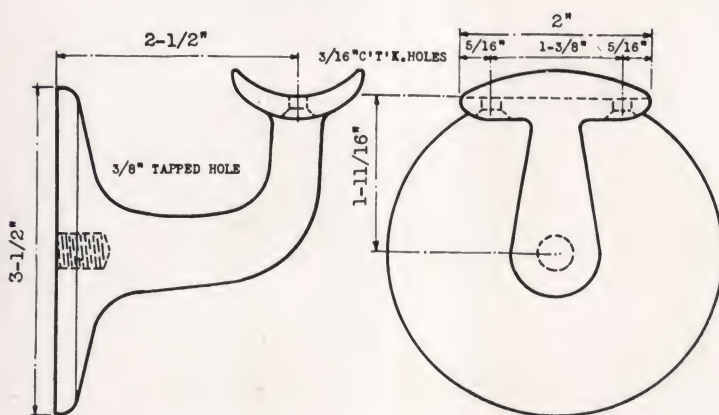


## HANDRAIL WALL BRACKETS



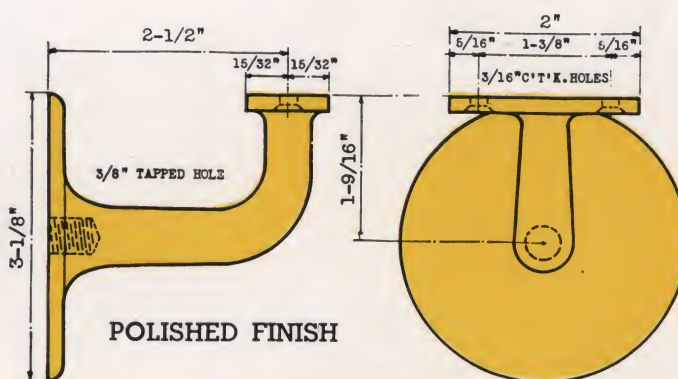
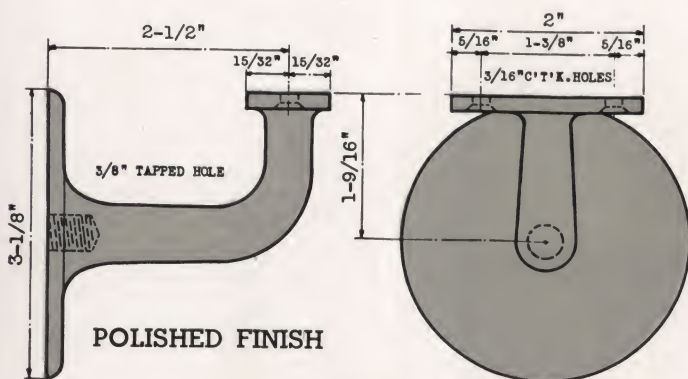
No. 372 Cast Iron Wall Bracket Filler

**WITH FLAT TOP MEMBER**  
No. 373 Cast Iron  
No. 377 Malleable Iron



Showing method of fastening Wall Brackets using Wall Bracket Filler No. 372

**WITH CURVED TOP MEMBER**  
No. 374 Cast Iron  
No. 378 Malleable Iron



**ARCHITECTURAL ALUMINUM**  
No. 371 with Flat Top Member  
No. 376 with Curved Top Member

**ARCHITECTURAL BRONZE**  
No. 370 with Flat Top Member  
No. 375 with Curved Top Member

All Handrail WALL BRACKETS are furnished with a  $\frac{3}{8}$ " drilled and tapped hole for fastening into the wall by means of toggle bolt, expansion bolt, wood screw, etc. They are also furnished with two  $\frac{3}{16}$ " drilled and countersunk holes for fastening handrail to bracket.

Bronze and Aluminum Handrail WALL BRACKETS are a finished product, polished and lacquered.



# POLISHED BRONZE FINIALS

Carried in stock with ROUND OR SQUARE BASE  
Drilled and Tapped Hole in Base for  $\frac{3}{8}$ " Bolt



6"

TYPE  
No. 402



5"



4"



3"



1" BALL



1  $\frac{1}{4}$ " BALL

TYPE  
No. 404



1  $\frac{1}{2}$ " BALL



1  $\frac{3}{4}$ " BALL



2" BALL



6"

TYPE  
No. 403



5"



4"



3"



# STEEL FINIALS

Carried in stock ONLY with SQUARE BASE  
Drilled and Tapped Hole in Base for  $\frac{3}{8}$ " Bolt



6"



5"



4"



3"

TYPE  
No. 452



1" BALL

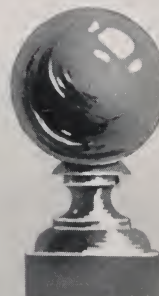


1 1/4" BALL

TYPE  
No. 454



1 1/2" BALL



1 3/4" BALL



2" BALL

Illustrations are shown ONE-HALF actual size  
DIMENSIONS

## No. 452 — Steel

Height	Sq. Base
3"	1"
4"	1 1/4"
5"	1 1/2"
6"	1 3/4"

## No. 454 — Steel

Dia. Ball	Sq. Base
1"	7/8"
1 1/4"	1 1/8"
1 1/2"	1 1/4"
1 3/4"	1 1/2"
2"	1 3/4"

## Aluminum Urn No. 432

4" high — 1 1/4" sq. base  
same as Type No. 402

## Aluminum Finial No. 434

1 1/2" ball — 1 1/4" sq. base  
same as Type No. 404

## No. 402 — Bronze

Height	Sq. Base	Rd. Base
3"	1"	1"
4"	1 1/4"	1 1/4"
5"	1 1/2"	1 1/2"
6"	1 3/4"	1 3/4"

## No. 404 — Bronze

Dia. Ball	Sq. Base	Rd. Base
1"	7/8"	7/8"
1 1/4"	1 1/8"	1 1/8"
1 1/2"	1 1/4"	1 1/4"
1 3/4"	1 1/2"	1 1/2"
2"	1 3/4"	1 3/4"

## No. 403 — Bronze

Height	Sq. Base	Rd. Base
3"	1"	1"
4"	1 1/2"	1 1/2"
5"	1 3/4"	1 3/4"
6"	2"	2"

## BRONZE URNS



## No. 405

Height 3 1/2"  
Rd. Base 7/8"  
Sq. Base 1"



## No. 406

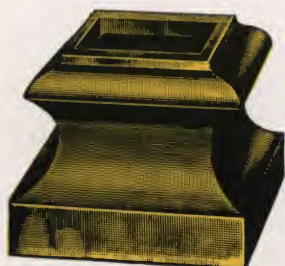
Height 4"  
Rd. Base 1 1/8"  
Sq. Base 1 1/4"

No. 405 and No. 406 Bronze Urns are not polished but have smooth, clean machined surface. Square bases are furnished loose to fit on round base of urn.



## ORNAMENTAL BALUSTER COLLARS AND BASES

BRONZE — POLISHED FINISH



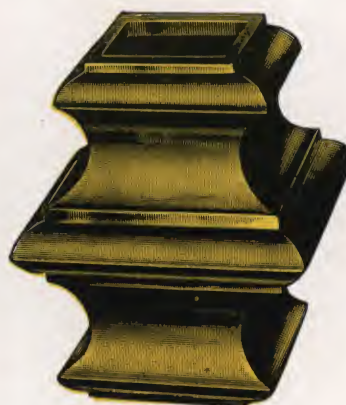
Square Hole

No.	Hole	Width
252	1/2"	1 1/4"
253	5/8"	1 1/4"
254	3/4"	1 3/8"
267	1"	1 3/4"
268	1 1/4"	2 3/4"
269	1 1/2"	3"



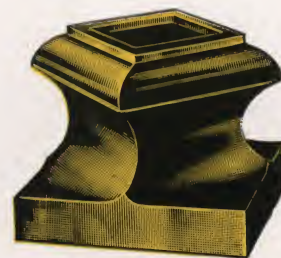
Square Hole

No.	Hole	Width
262	1/2"	1 1/4"
263	5/8"	1 1/4"
264	3/4"	1 3/8"



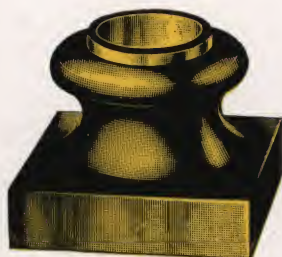
Square Hole

No. 265	1/2" Square
No. 266	5/8" Square



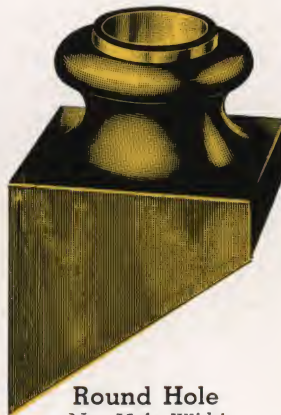
Square Hole  
On Edge

No. 258	1/2" Square 1 1/4" Square Base
---------	-----------------------------------



Round Hole

No.	Hole	Width
255	3/8"	1 1/4"
256	1/2"	1 1/4"
257	5/8"	1 3/8"



Round Hole

No.	Hole	Width
259	3/8"	1 1/4"
260	1/2"	1 1/4"
261	5/8"	1 3/8"

### ARCHITECTURAL BRASS

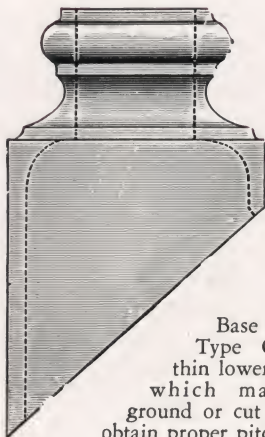


Round Base

No. 78	3/8" Round Hole
No. 79	1/2" Round Hole
No. 80	1/2" Round Hole

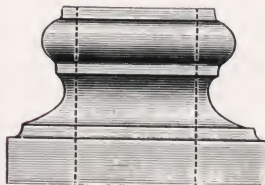
## CAST IRON BALUSTER COLLARS AND BASES

TYPE G

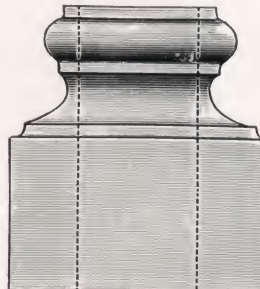


Base Collar  
Type G has  
thin lower edges  
which may be  
ground or cut off to  
obtain proper pitch.

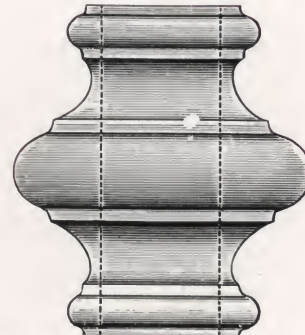
TYPE E



TYPE F



TYPE H

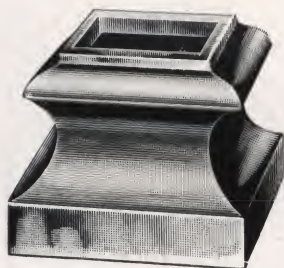


CAST IRON BALUSTER COLLARS AND BASES Types "E", "F", "G", "H"  
are carried in stock with 1/2", 5/8", 3/4" (clear) square holes



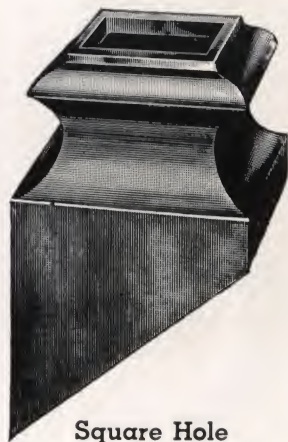
## ORNAMENTAL BALUSTER COLLARS and BASES

### — CAST IRON —



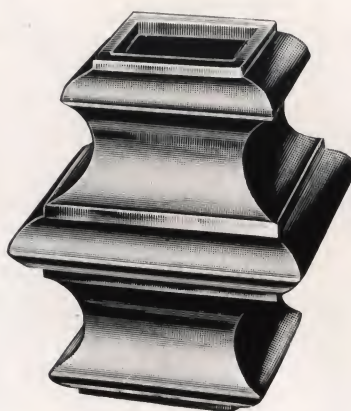
**Square Hole**

No.	Hole	Width
352	1/2"	1 1/4"
353	5/8"	1 1/4"
354	3/4"	1 3/8"
367	1"	1 3/4"
368	1 1/4"	2 3/4"
369	1 1/2"	3"



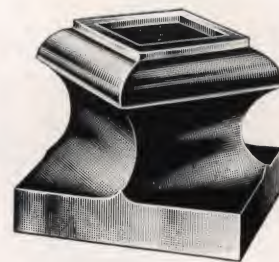
**Square Hole**

No.	Hole	Width
362	1/2"	1 1/4"
363	5/8"	1 1/4"
364	3/4"	1 3/8"



**Square Hole**

No. 365	1/2" Square
No. 366	5/8" Square



**Square Hole  
On Edge**

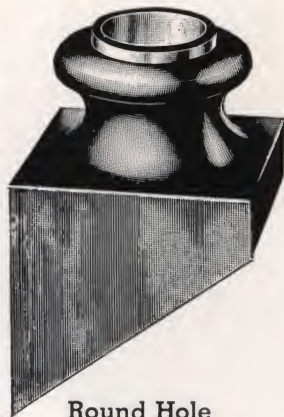
No. 358	1/2" Square 1 1/4" Square Base
---------	-----------------------------------

### — CAST IRON —



**Round Hole**

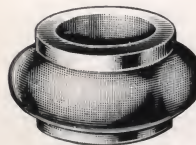
No.	Hole	Width
355	3/8"	1 1/4"
356	1/2"	1 1/4"
357	5/8"	1 3/8"



**Round Hole**

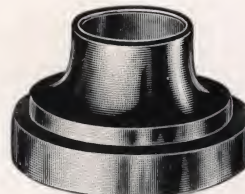
No.	Hole	Width
359	3/8"	1 1/4"
360	1/2"	1 1/4"
361	5/8"	1 3/8"

### — STEEL —



**Round Collar**

No. 72	1/2" Round Hole
--------	-----------------



**Round Base**

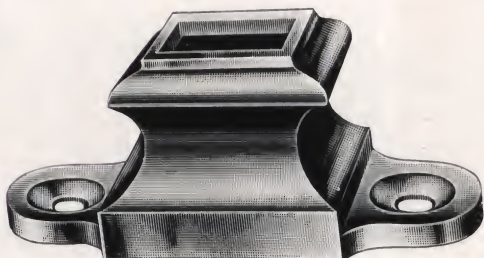
No. 75	3/8" Round Hole
No. 76	1/2" Round Hole
No. 77	1/2" Round Hole



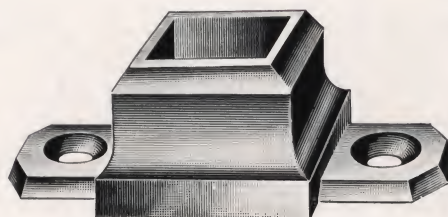
**Round Collar**

No. 73	3/8" Round Hole
No. 74	5/8" Round Hole

### — HEAT TREATED FERROUS ALLOY —



No. 390	1/2" Square Hole
No. 391	5/8" Square Hole

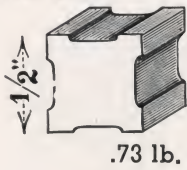


No. 350	1/2" Square Hole
No. 351	5/8" Square Hole

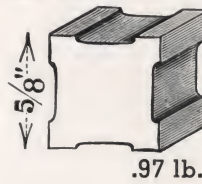


## ROLLED STEEL BALUSTER BARS

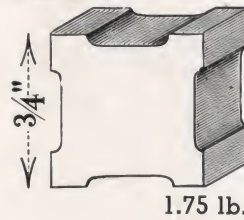
No. 4180



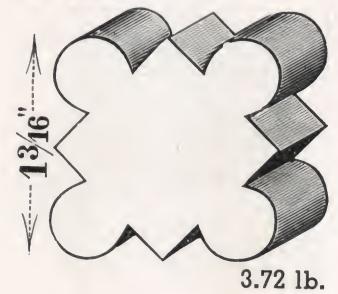
No. 4181



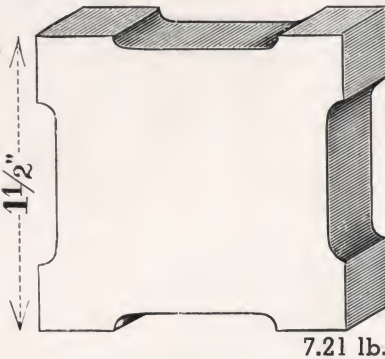
No. 4182



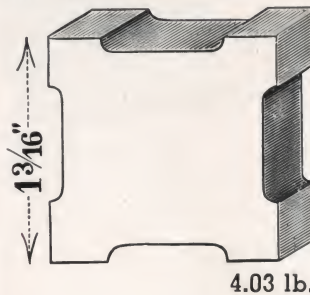
No. 4192



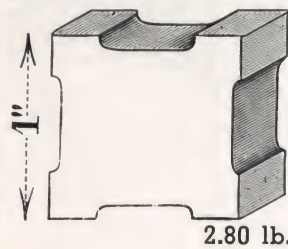
No. 4185



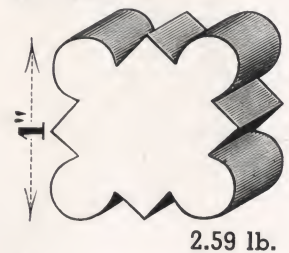
No. 4184



No. 4183

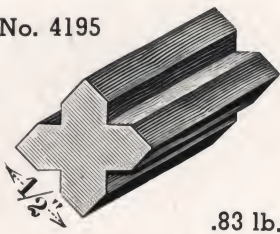


No. 4191

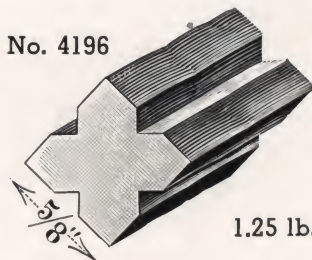


## HAND-HAMMERED EFFECT

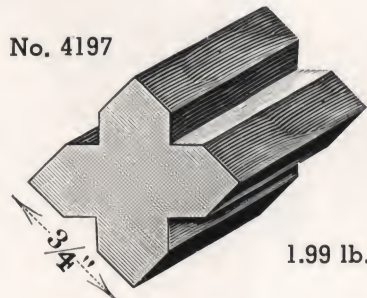
No. 4195



No. 4196



No. 4197



No. 4190



No. 4189



Baluster Bars shown here may be twisted to produce highly artistic results. Very effective designs may also be created by combining with our Forged Spindles or Ornamental Balusters.

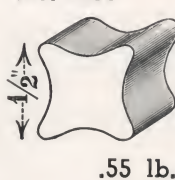
No. 4188



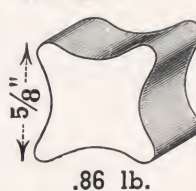
No. 4291



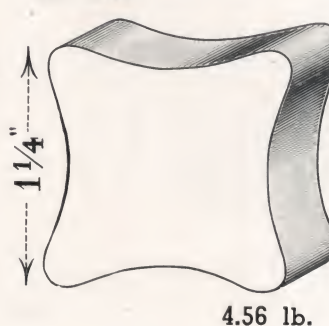
No. 4290



No. 4292



No. 4295



No. 4187



TWISTED BARS in the same shape as the three shown above are carried in 20 ft. lengths. In ordering these bars twisted, specify following numbers:

3/8"—No. 4286    1/2"—No. 4287    5/8"—No. 4288



## ORNAMENTAL BALUSTER COLLARS



No. 544 — 1/2" Sq. Hole

No. 545 — 5/8" Sq. Hole



No. 546 — 1/2" Sq. Hole

No. 547 — 5/8" Sq. Hole

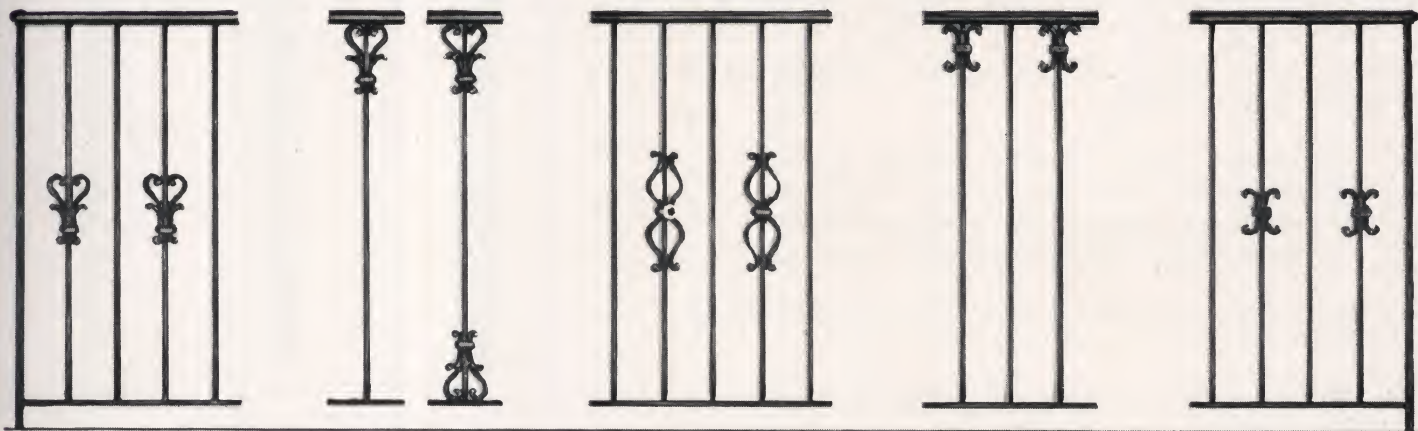


No. 543 — 1/2" Sq. Hole

No. 535 — 5/8" Sq. Hole

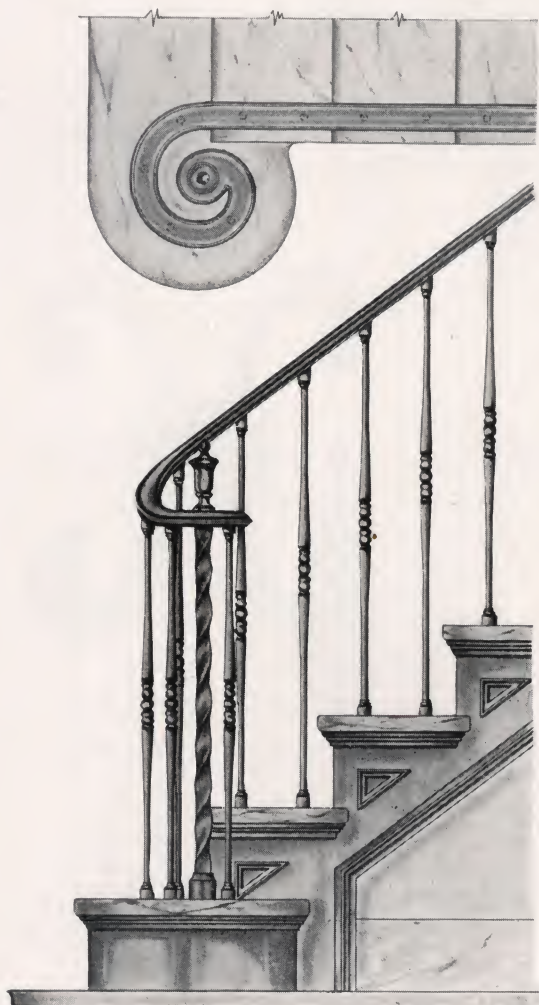
**ORNAMENTAL BALUSTER COLLARS ARE INEXPENSIVE  
AND HIGHLY DECORATIVE. USED SINGLY OR IN COMBINATIONS.**

EASILY APPLIED, CAN BE FASTENED BY SCREW, TACK WELD OR CALKING  
HEAT TREATED FERROUS ALLOY CASTINGS — FREE FROM BREAKAGE



A FEW TYPICAL APPLICATIONS OF ORNAMENTAL BALUSTER COLLARS  
FOR RAILING ORNAMENTATION





## Hollow Tapered Steel Spindles

### RAILING

**Specification:** Rolled Steel, Bronze or Aluminum Handrail, curved as shown. *Newel Post:* Twisted Square Steel Tubing. Polished Bronze or Steel Finial. Hollow Steel Spindles with steel or brass collars used for baluster bars. Rolled Steel Mouldings applied to stair stringer, underneath treads and to riser panel.

Hollow Tapered Steel Spindles can be used advantageously for ornamental iron work, such as:

Balusters, Grilles, Balcony Railings, Doors,  
Bank Work, Furniture, Lamps, Partitions,  
Table Legs, Drapery Rods, Window Guards,  
Awning Rods, Ventilator Openings, etc., etc.

On account of their **EXTREMELY LOW COST**, **HOLLOW STEEL SPINDLES** can be used for work at commercial prices.

For high class work, we recommend forged spindles as shown on Page Nos. 21, 22.

**HOLLOW STEEL SPINDLES** may be easily polished and plated. They are strong, but light in weight.



**No. 300**  
1 1/4" in center  
tapering to  
3/4" on ends



**No. 310**  
1" in center  
tapering to  
5/8" on ends



**No. 320**  
3/4" in center  
tapering to  
3/8" on ends

Nos. 300 and 320 carried in stock in 3 ft. lengths.  
No. 310 carried in stock in 3 and 5 ft. lengths.



No. 325  
 $\frac{1}{2}$ " round at  
ends

No. 326  
 $\frac{3}{8}$ " round at  
ends

No. 327  
 $\frac{1}{2}$ " round at  
ends

No. 328  
 $\frac{5}{8}$ " round at  
ends



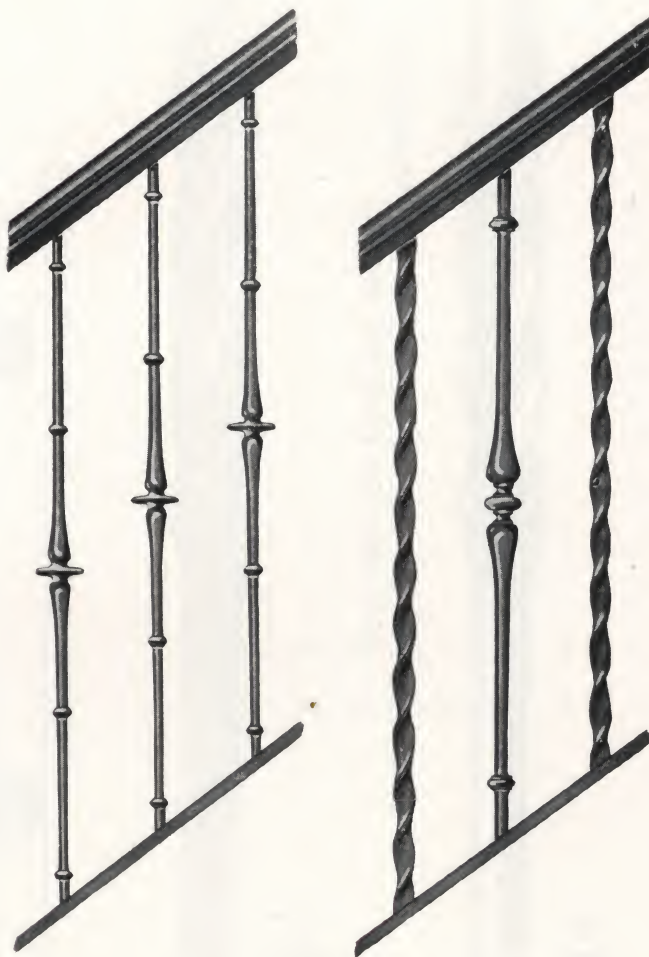
Illustrations are ONE-QUARTER actual size

## FORGED SPINDLES

These spindles are forged from SOLID stock.

Carried in stock in three-foot lengths. Other lengths can be furnished from mill.

Forged spindles may be used for the construction of stair and balcony railings, window guards, grilles, doors, awning rods, gates, partitions, transoms, table legs, lamps, etc.



Bases and Collars with round holes are carried in stock in Cast Iron, Steel and Polished Bronze for use with Forged and Hollow Steel Spindles.

Collars shown on tapered stems of Forged Spindles Nos. 325 and 327 can be furnished loose for alignment to required position when spindles are used on stair treads.



# FORGED STARTING POSTS & BALUSTER BARS

SCALE: 3" = 1'-0"


1 1/4"




No. 332

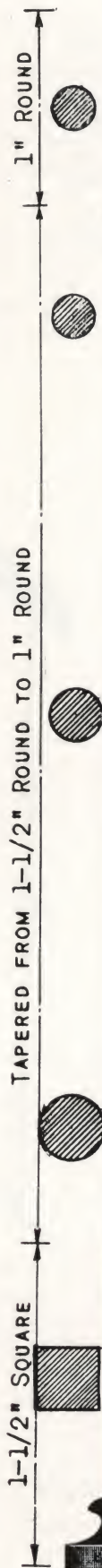
BASES SHOWN ARE UNATTACHED, CAN BE FURNISHED IN  
CAST IRON OR POLISHED BRONZE

1 1/4"




No. 343

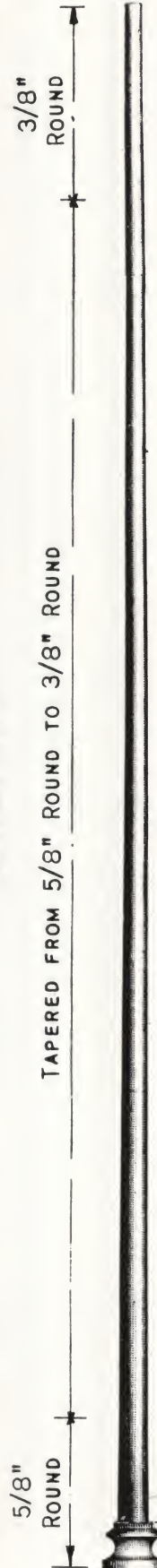
TAPERED FROM 1-1/2" ROUND TO 1" ROUND



No. 331

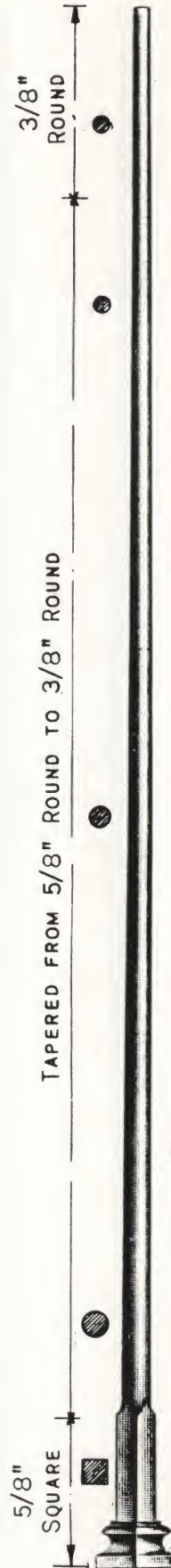
LENGTH . . . 3'-0"

TAPERED FROM 5/8" ROUND TO 3/8" ROUND



No. 329

TAPERED FROM 5/8" ROUND TO 3/8" ROUND



No. 330



# ORNAMENTAL CAST IRON POSTS

SCALE: 3" = 1'-0"



No. 333



No. 335



No. 334

Ornamental and practical in design these Cast Iron Starting Posts may be used in effective combinations with our Panel Castings, Ornamental Balusters or Forged Spindles.

They are designed to allow for adjustment to varying heights and may be made shorter without interference with the ornamentation.

Base Collars suitable for use with these posts are shown on page 17.

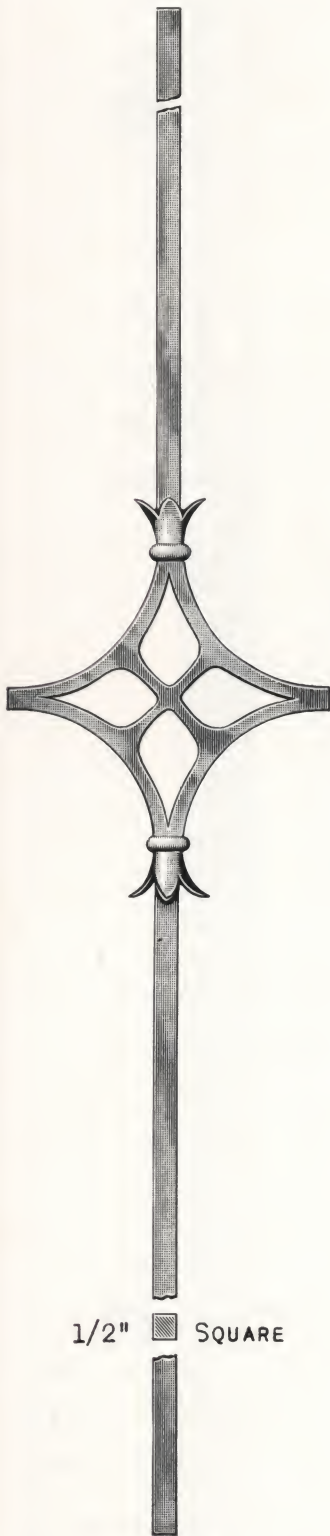
## DIMENSIONS

	<i>Length</i>	<i>Base</i>	<i>Top</i>
No. 333 .....	3'-0"	1½" Sq.	7⁄8" Rd.
No. 334 .....	3'-0"	1" Rd.	1" Rd.
No. 335 .....	3'-0"	1¼" Sq.	1¼" Sq.



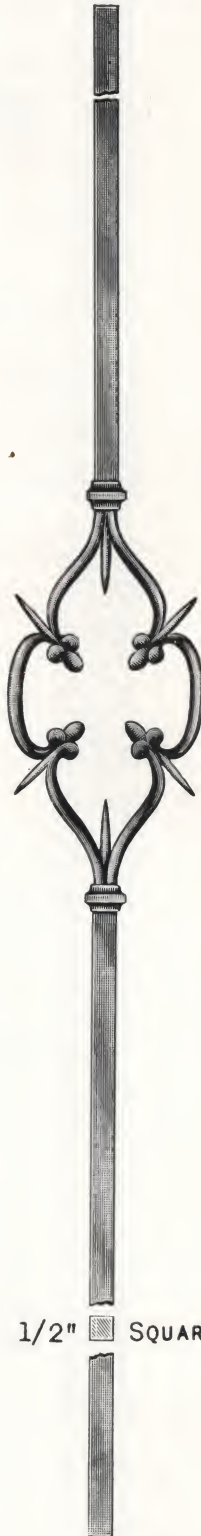
## ORNAMENTAL BALUSTER BARS

(SCALE: 3" = 1'-0")



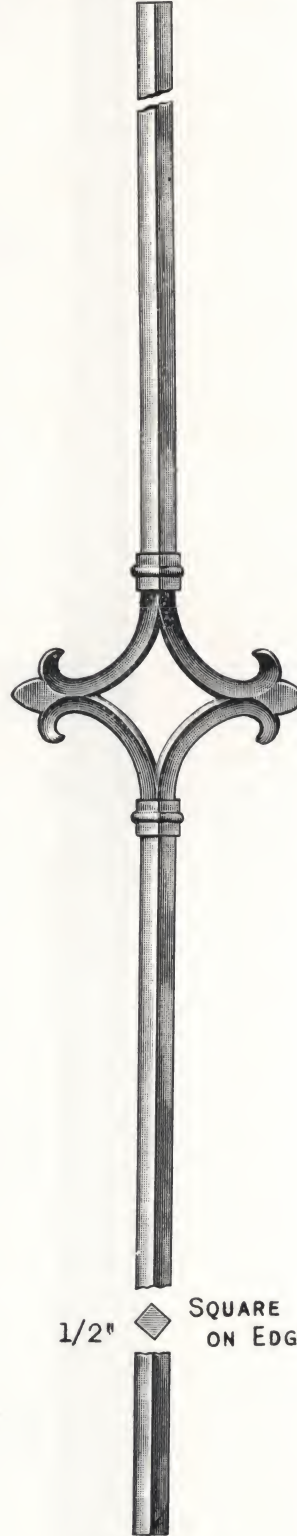
1/2"  SQUARE


No. 528



1/2"  SQUARE

No. 533



1/2"  SQUARE  
ON EDGE

No. 534



5/8"  ROUND

No. 532

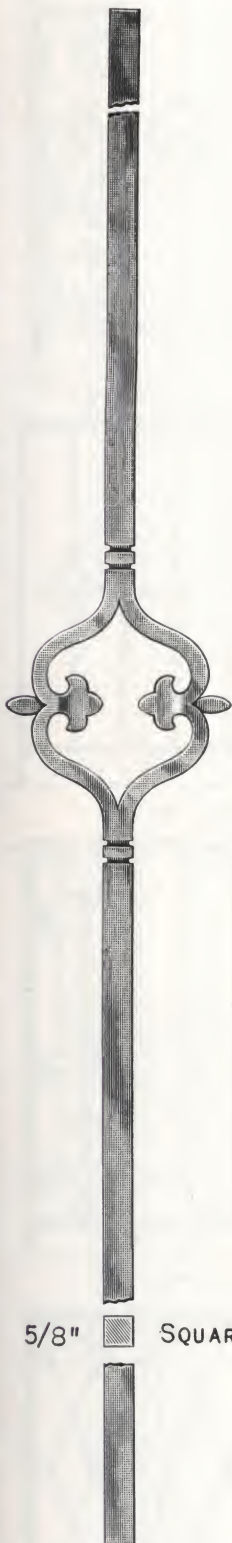
3' 3" MINIMUM LENGTH OF BARS

Ornamental Baluster Bars have decorative centers of heat-treated ferrous alloy, electrically welded to soft steel bars. The assembled units are annealed after welding to produce high tensile strength; bars may be welded or drilled and tapped.



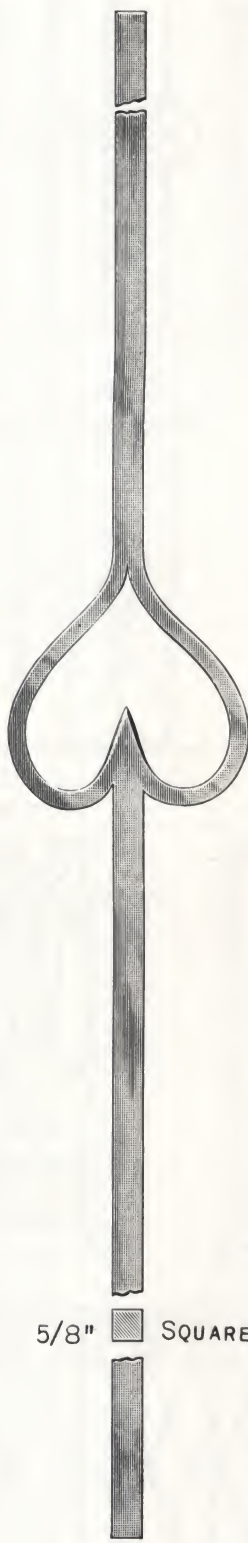
## ORNAMENTAL BALUSTER BARS

(SCALE: 3" = 1'-0")



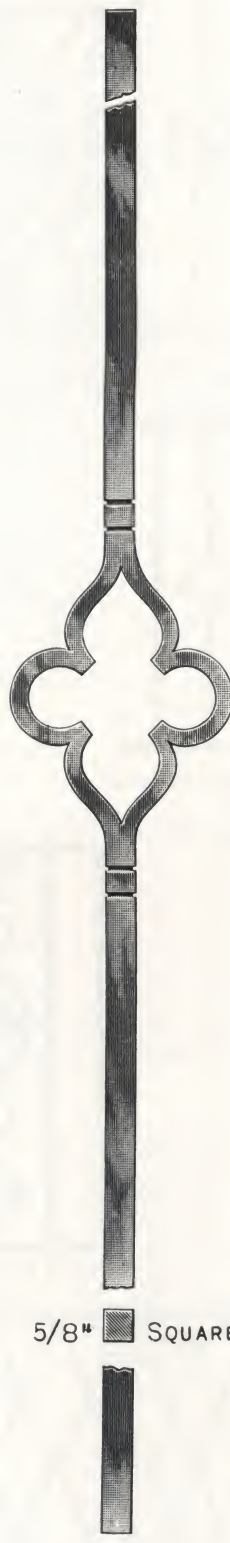
5/8"  SQUARE


No. 530



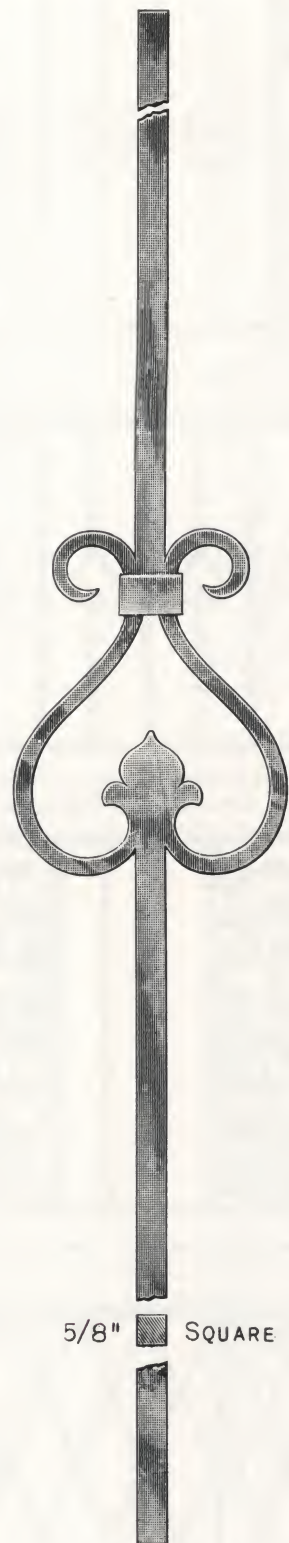
5/8"  SQUARE

No. 536



5/8"  SQUARE

No. 531



5/8"  SQUARE

No. 529

3' 3" MINIMUM LENGTH OF BARS

Ornamental Baluster Bars are furnished in one piece of sufficient length for use on any type of incline. Ornamental Center Castings of the same designs can be supplied without bars attached, for use in special applications, offering unlimited possibilities of design.

REILLAGE

MOULDINGS

SADDLES

TUBING & SHAPES

ORNAMENTS

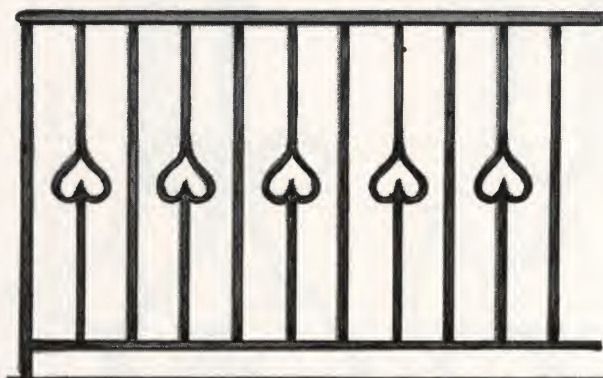
MISCELLANEOUS



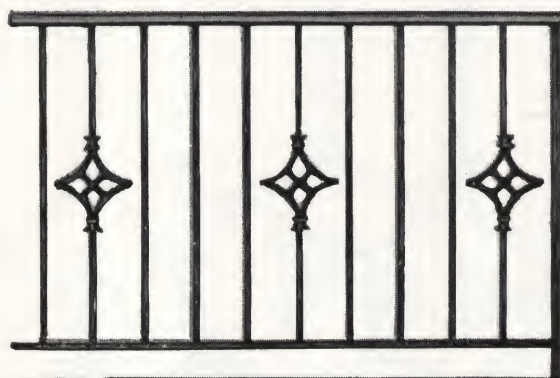
## RAILINGS CONSTRUCTED WITH STOCK CASTINGS



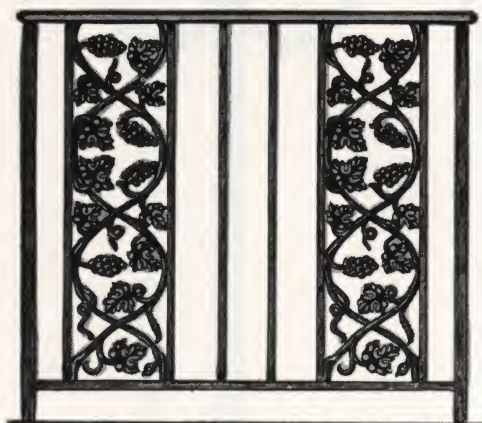
End Panels No. 520 Casting—Centre Panel No. 521 Combined with No. 520 Castings—Ornamental Baluster No. 532



Ornamental Baluster No. 536



Ornamental Baluster No. 528



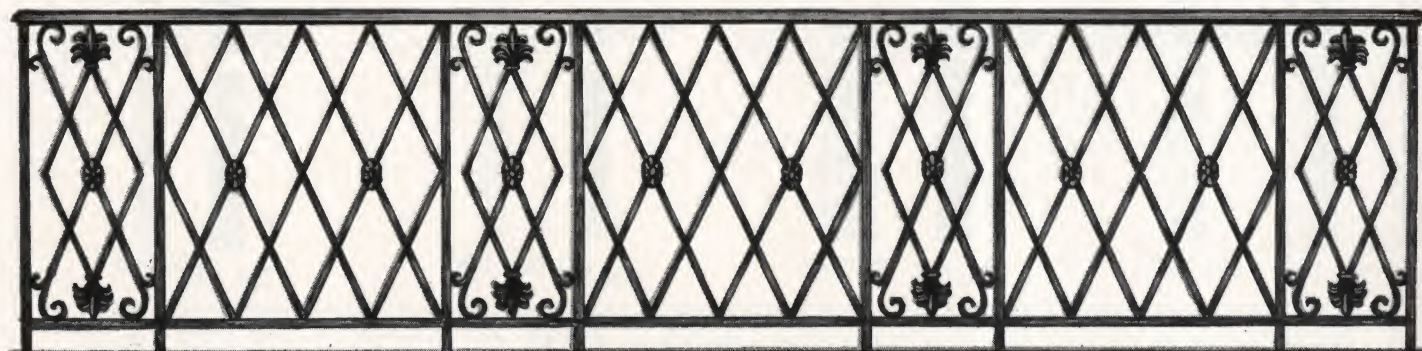
Panel Casting No. 511



Panel Casting No. 518



Panel Casting No. 517



Panel Casting No. 541 Combined with Casting No. 540



## ORNAMENTAL DOUBLE FACED CASTINGS

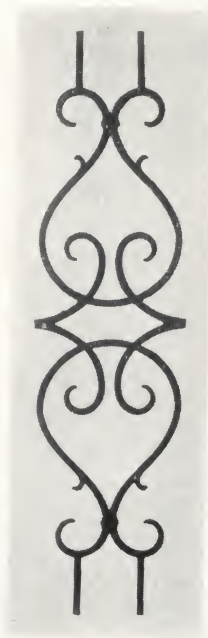
SCALE: 1" = 1'-0"



No. 538  
HEIGHT: 2'-9"



No. 518  
HEIGHT: 2'-11 $\frac{13}{16}$ "



No. 539  
HEIGHT: 3'-1"



No. 517  
HEIGHT: 2'-11 $\frac{1}{8}$ "



No. 537  
HEIGHT: 3'-1"

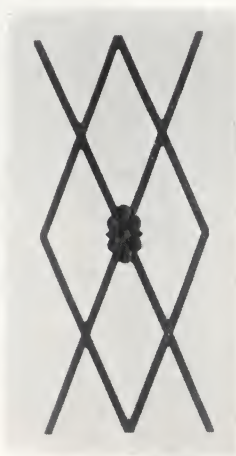
Ornamental Double Faced Panel Castings may be used in repetition or in combination with forged spindles and ornamental balusters.

Clean in appearance with perfectly executed details.

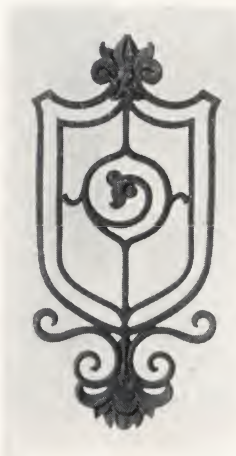
Heat Treated Ferrous Alloy Castings may be bent or curved, hammer marked, electric welded or brazed.



No. 519  
HEIGHT: 2'-8 $\frac{5}{16}$ "



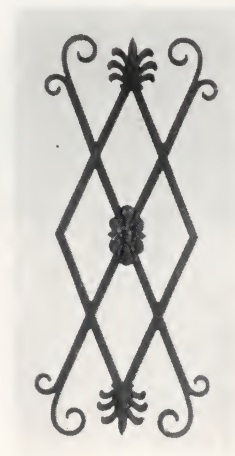
No. 540  
HEIGHT: 2'-0 $\frac{3}{8}$ "



No. 521  
HEIGHT: 2'-0 $\frac{7}{8}$ "



No. 520  
HEIGHT: 2'-0 $\frac{7}{8}$ "



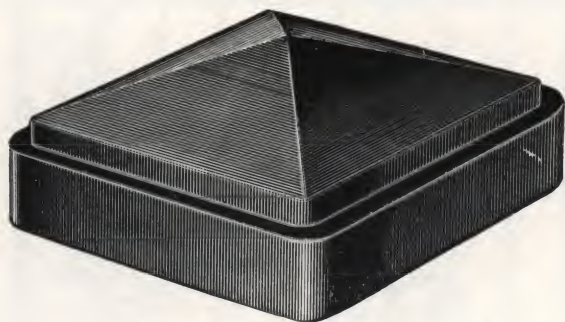
No. 541  
HEIGHT: 2'-0 $\frac{5}{8}$ "



No. 511  
HEIGHT: 2'-7 $\frac{3}{8}$ "



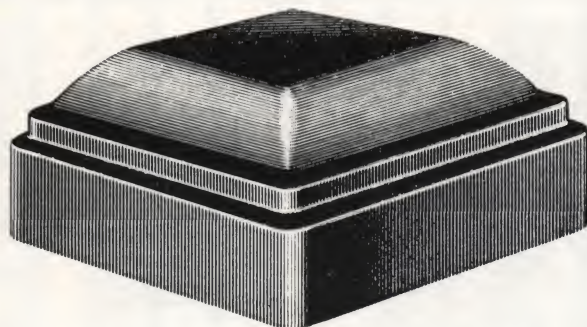
## NEWEL POST CAPS AND DROPS



**TYPE "A"**

CAST IRON

2" x 2"	Square	3" x 4"	Rectangular
2½" x 2½"	"	3" x 6"	"
3" x 3"	"	3" x 8"	"
3½" x 3½"	"	4" x 6"	"
4" x 4"	"	4" x 8"	"

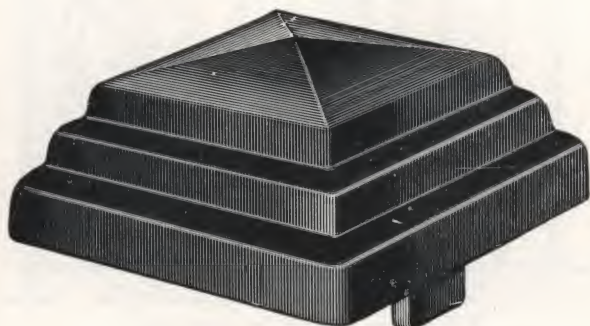


**TYPE "W"**

PRESSED STEEL

*These caps do not require fastening as they fit snugly over the ends of the Tubes*

3" x 3"	Square
4" x 4"	"

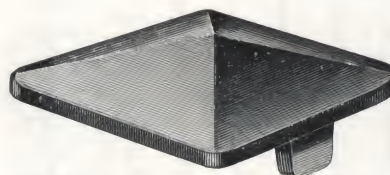


**TYPE "B"**

with LUGS

CAST IRON

3" x 3"	Square
3½" x 3½"	"
4" x 4"	"

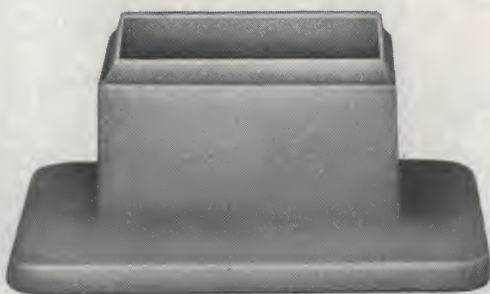


**TYPE "C"**  
with LUGS

CAST IRON

1½" x 1½"	Square
2" x 2"	"
2½" x 2½"	"
3" x 3"	"

### TUBE SOCKETS



MALLEABLE IRON

1" x 1"	Square
1¼" x 1¼"	"
1½" x 1½"	"
2" x 2"	"
2½" x 2½"	"
3" x 3"	"



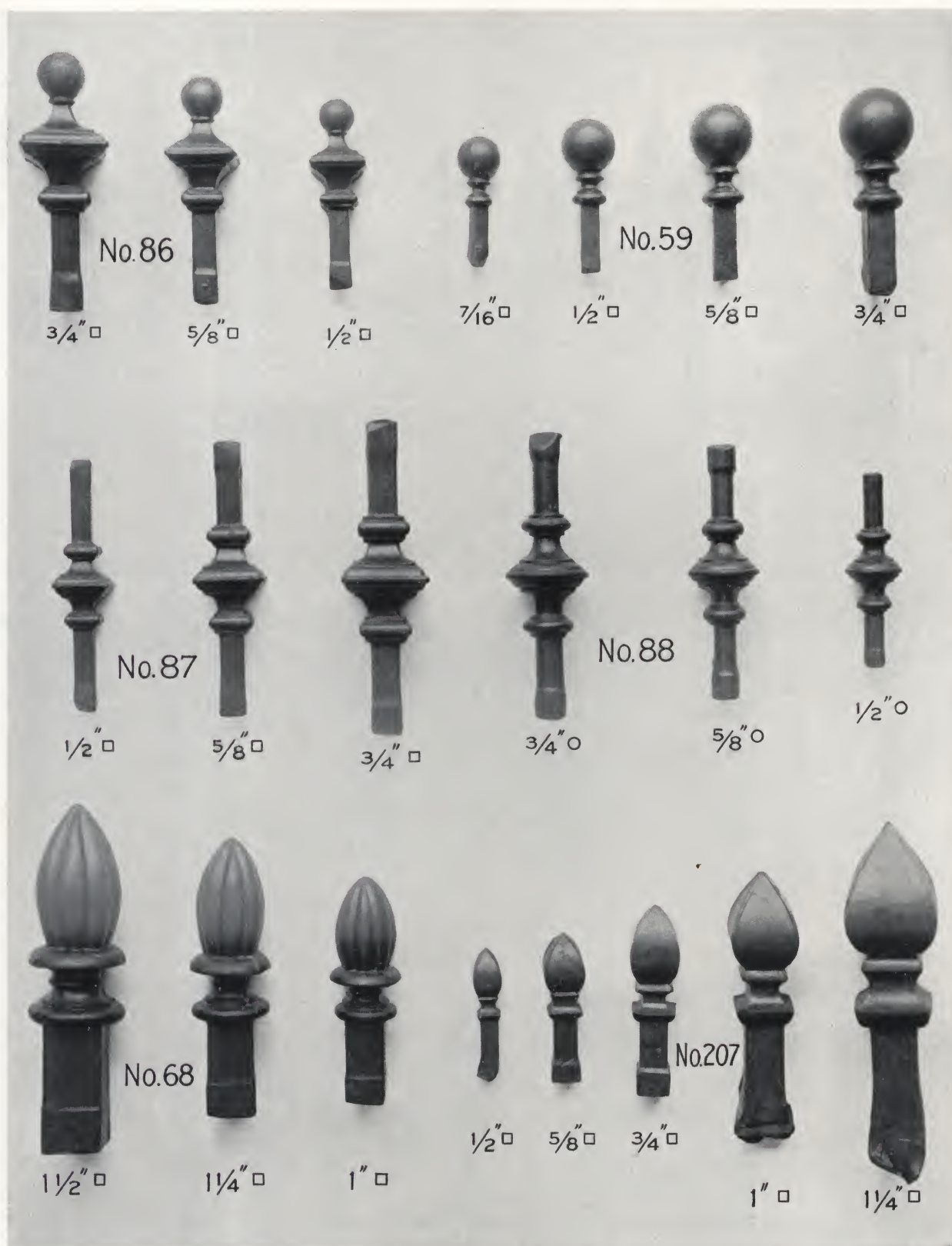
**BALL CAP**  
CAST IRON

2" x 2"	Square
2½" x 2½"	"
3" x 3"	"
3½" x 3½"	"
4" x 4"	"

*All Sizes Shown Are Outside Measurements of Tube*  
For SQUARE and RECTANGULAR TUBING—SEE PAGES 96 and 97



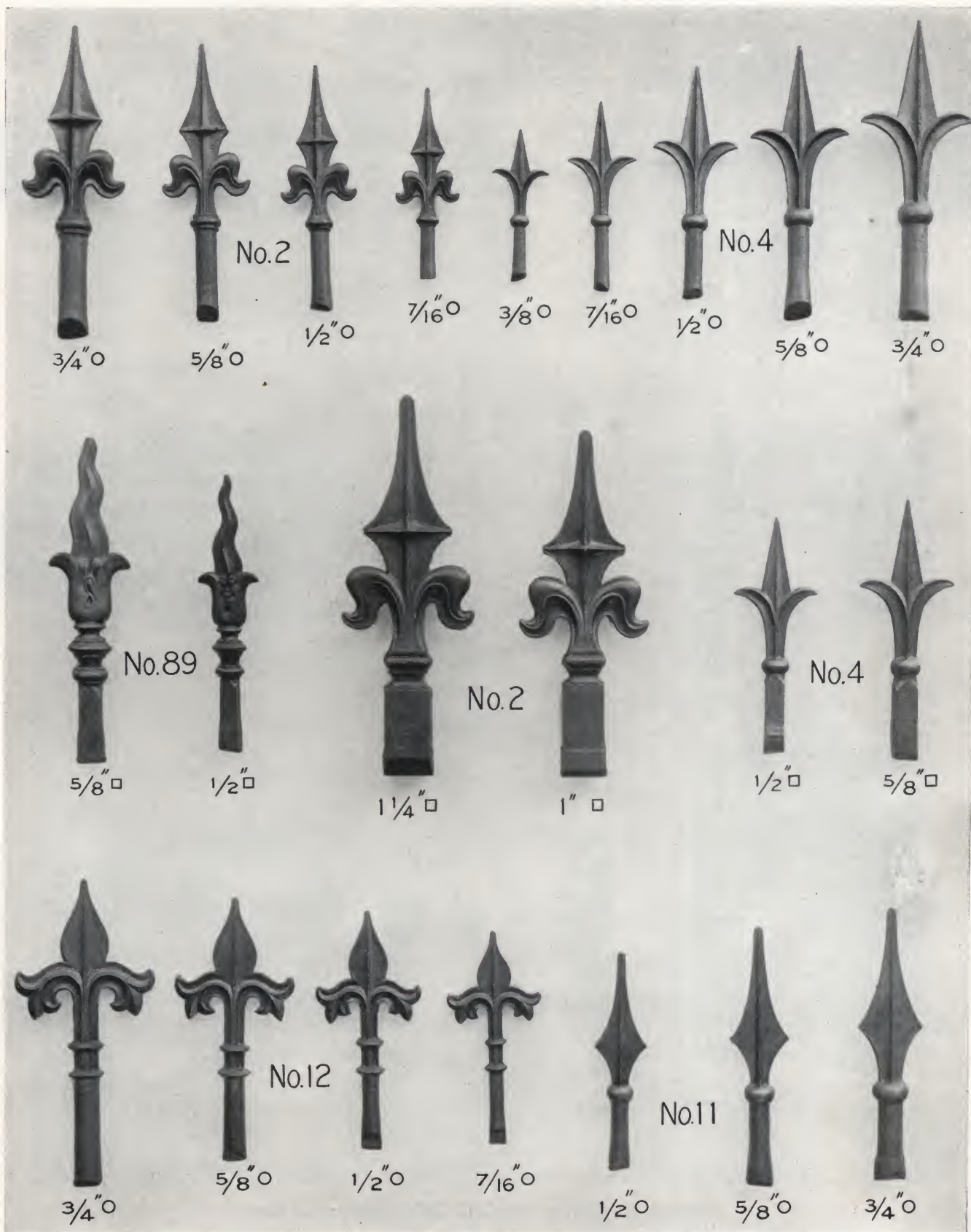
# FORGED WROUGHT IRON PICKETS AND FINIALS



Illustrations shown are ONE-QUARTER actual size



# FORGED WROUGHT IRON PICKETS AND FINIALS



Illustrations shown are ONE-QUARTER actual size



# FORGED WROUGHT IRON PICKETS AND FINIALS



No. 24



5/8" O

No. 10



5/8" O



5/8" □

No. 49



3/4" □

No. 4



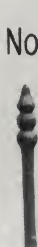
PEARL BARS



No. 3



No. 2



No. 1



No. 40



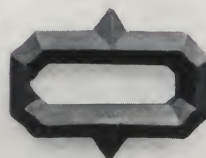
No. 39



No. 35

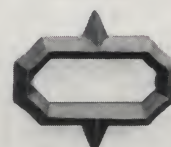
CHAIN LINKS

LARGE



4 1/2" LONG x 2 3/8" WIDE x 5/8" THICK

SMALL



3 1/2" LONG x 2" WIDE x 1/2" THICK

Illustrations shown are ONE-QUARTER actual size



## RAILING DESIGN



### SPECIFICATION

End Panel and Center Panel — Casting No. 538  
Ornamental Baluster — No. 529

## TREILLAGE DESIGNS

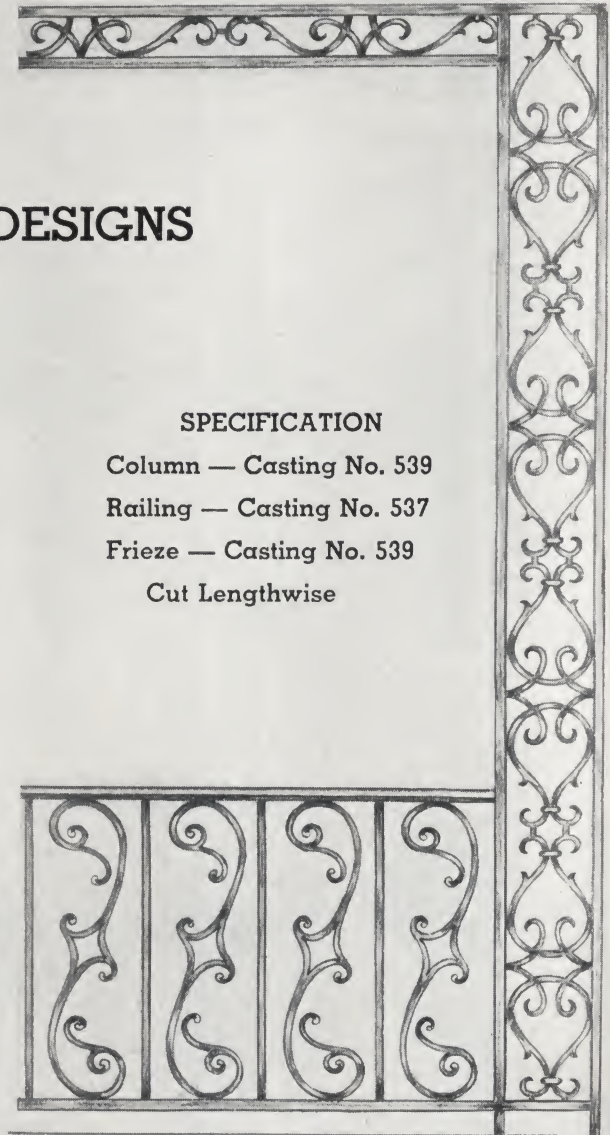
### SPECIFICATION

Column — Casting No. 541  
Railing — Casting No. 540  
Frieze — Rosette No. 554



### SPECIFICATION

Column — Casting No. 539  
Railing — Casting No. 537  
Frieze — Casting No. 539  
Cut Lengthwise





## TREILLAGE

**J**ULIUS BLUM Ornamental Castings can be used to create effects which add distinctive beauty to residential and commercial buildings.

The motifs shown on the following pages can be combined to create continuous or all over designs of infinite variety, at surprisingly low cost.

They are used appropriately for the construction of:

Verandas	Grilles	Railings	Roof Terraces
Porches	Fences	Trellis	Gates
Pergolas	Balconies	Panels	Summer Houses, etc.

Ornamental Double Faced Castings are made of Heat Treated Ferrous Alloy. They are clean in appearance with every detail perfectly executed. This Alloy has a very high tensile strength, does not pit when exposed to atmospheric conditions and may be wrought cold like wrought iron and otherwise finished like genuine wrought iron.

The use of these Castings eliminates breakage through abuse, and straight pieces may be bent or shaped cold to fit the curves of balconies, railings, etc.

All double faced castings can be used right or left hand. Connections may be electrically welded as well as gas welded, although when gas welding is used care must be exercised not to overheat the metal.

JULIUS BLUM services are available for any information or details necessary regarding design, construction or lay-out of the Castings shown.

For additional suggestions on designs write for our Booklet "TREILLAGE."



## TREILLAGE

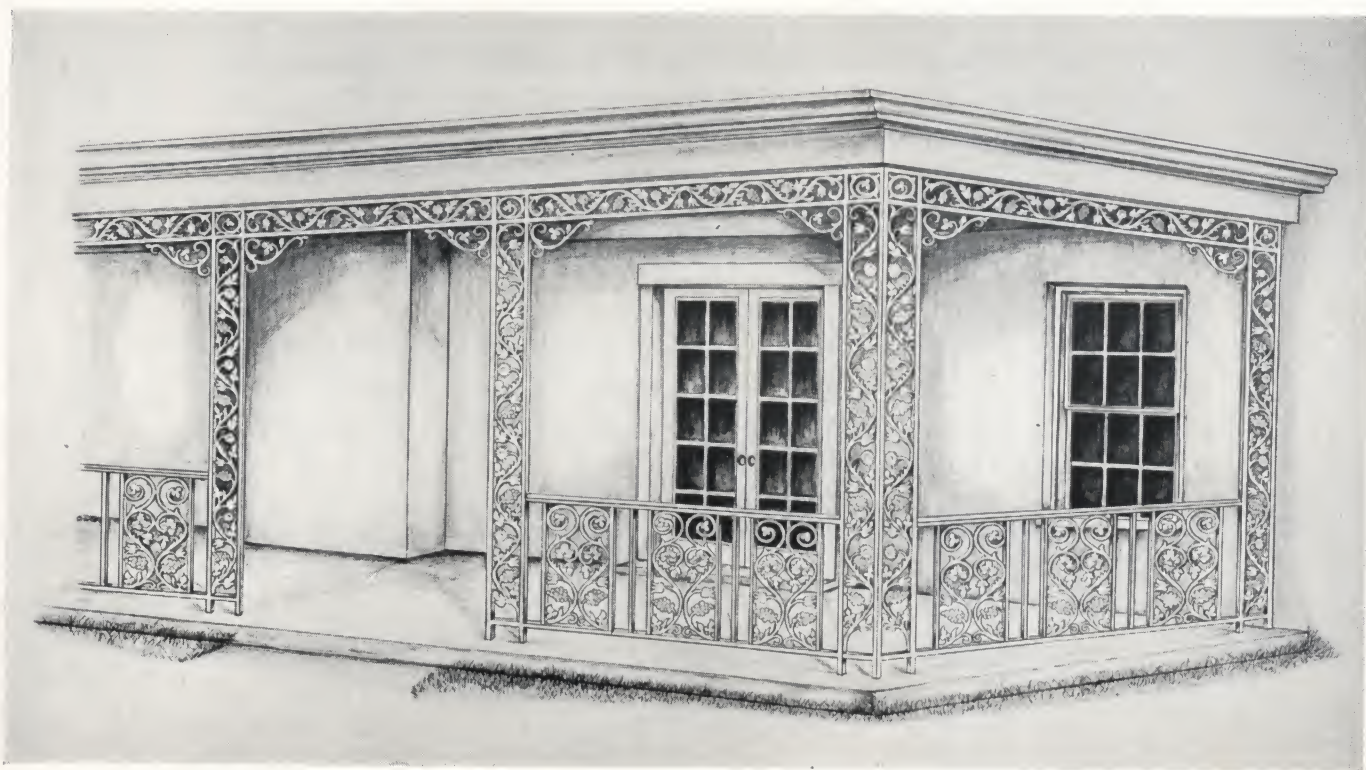
The delicate and picturesque qualities of cast treillage have long been a source of admiration to those who have viewed this form of decorative iron work. Splendid examples of such construction dating back to early colonial days have become landmarks of the South and many attractive forms of this work are still to be seen on buildings which have withstood the trend of expansion and modernization in the older historical sections of metropolitan areas.

Typically American and definitely belonging to our form of early architecture, cast treillage has gained greatly in popularity in recent years.

By maintaining a complete stock of the various Heat Treated Alloy Castings shown in this catalog, Julius Blum & Co., Inc. gives the architect and iron worker the opportunity to present to the builder and home owner, duplications of the "lace-like" and decorative detail of this early American type of architecture.

The many objections and handicaps involved in the use of cast iron have been overcome in our Heat Treated Alloy Castings. Delicate leaf and cluster forms characteristic of our many patterns are left to hang free because there is no danger of breakage through misuse. This open detail also eliminates temperature stresses and fully utilizes the strength and toughness of the metal.

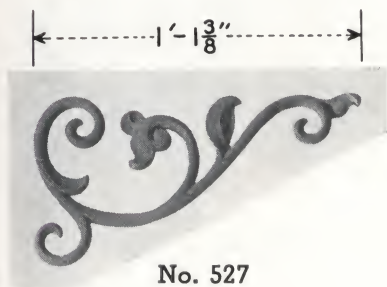
Fabrication and assembly of our castings are easily accomplished through modern shop practice and welding.



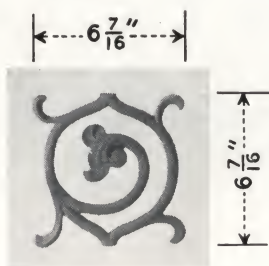


## ORNAMENTAL DOUBLE FACED CASTINGS

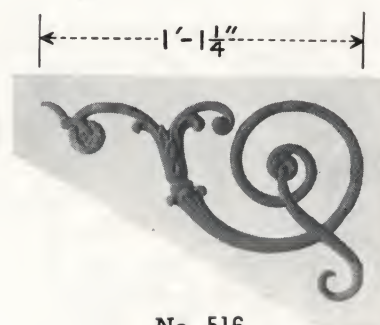
SCALE:  $1\frac{1}{2}" = 1'-0"$



No. 527

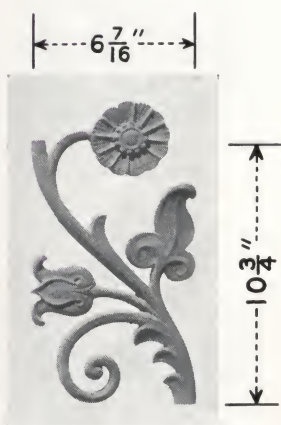


No. 526

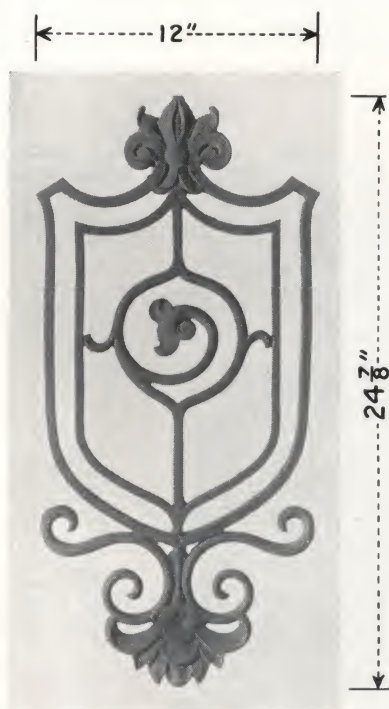


No. 516

A series of related designs in varied patterns and sizes which may be combined to meet required dimensions and conditions.



No. 524



No. 521



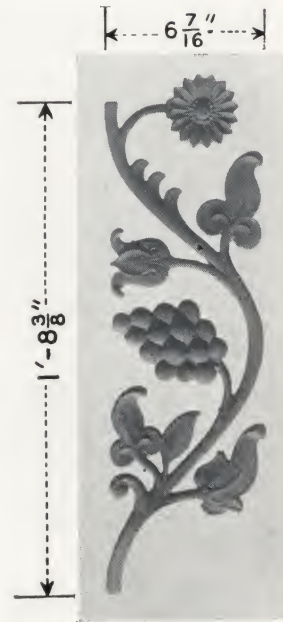
No. 520



No. 525



No. 523



No. 522

Castings No. 520 and No. 521 shown above are especially suited for railing panels.

Castings No. 522, 523 and 524 may be repeated or alternated.

All castings are reversible.

See illustration page 34.



## ORNAMENTAL DOUBLE FACED CASTINGS

SCALE  $1\frac{1}{2}" = 1'-0"$



**No. 513**  
In Three Pieces  
Length of Sides:  
3'-0" x 3'-0"



**No. 514**  
Length: 1'-2"



**No. 527**  
Length: 1'-13/8"

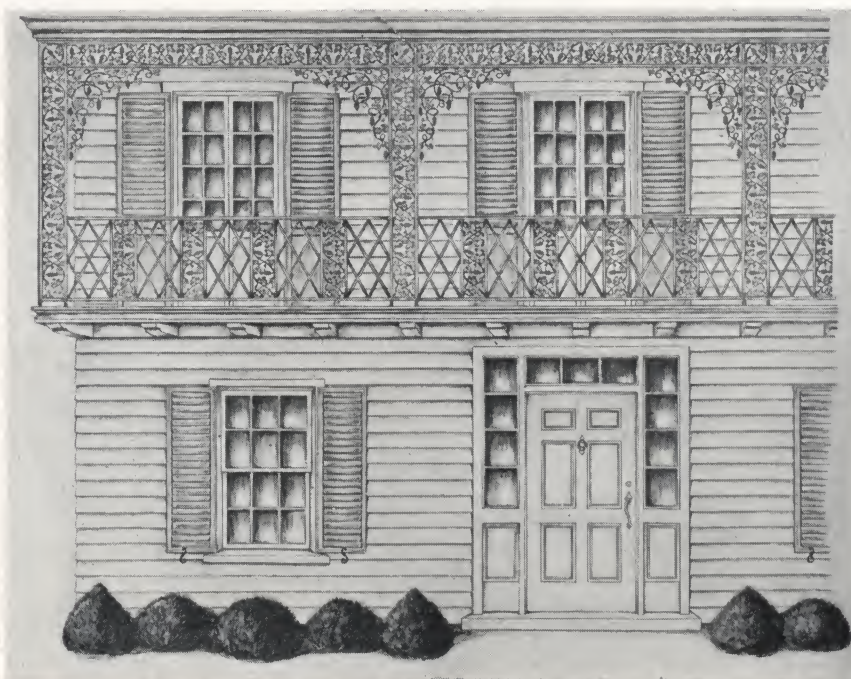


**No. 512**  
Height: 8 1/4"  
Width: 8 1/4"

This series of related designs can be used in many effective combinations and is adaptable for innumerable uses and forms of construction.

All castings are double faced and may be used right and left.

Over all dimensions of castings are shown.



**No. 511**  
Length: 2'-7 3/8"  
Width: 8 1/4"



## ORNAMENTAL DOUBLE FACED CASTINGS

SCALE  $1\frac{1}{2}" = 1'-0"$



**No. 550**

Height . 2'-10 $\frac{1}{4}"$   
Width . . . 7 $\frac{1}{8}"$



**No. 551**

Height . . . 7 $\frac{1}{8}"$   
Width . . . 7 $\frac{1}{8}"$



**No. 552**

Length . . . 1'-7"

A series of designs to produce a graceful scroll-like effect. Although delicate and light in appearance these castings have ample strength for all practical purposes and are easily assembled.

**No. 551** Casting may be used for corner terminations or railing panels.

**No. 552** Casting is also adaptable as a hanging sign or lamp bracket.

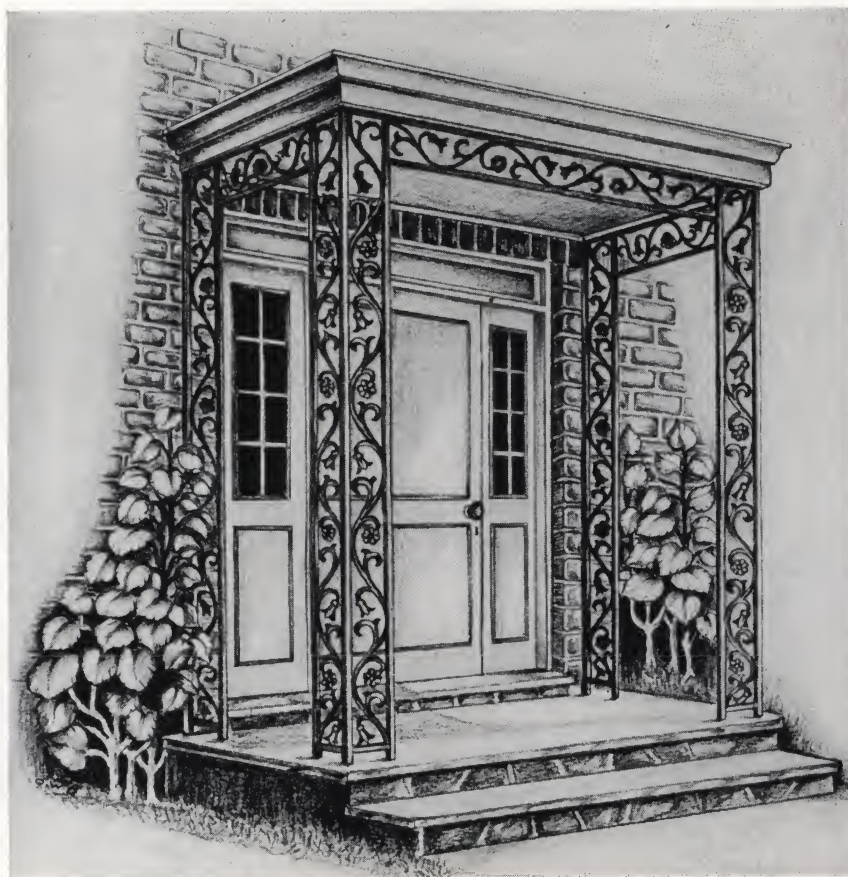
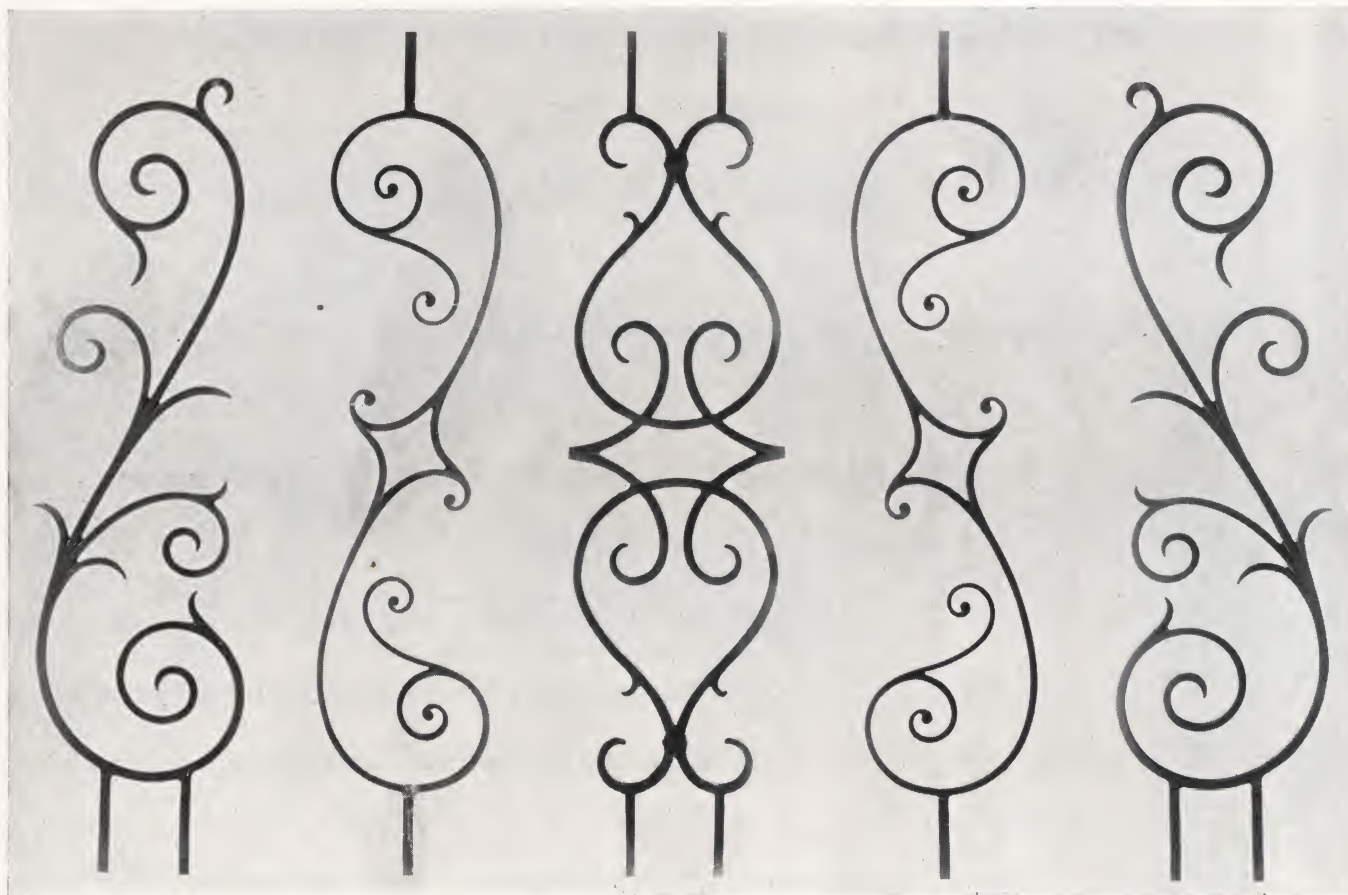


Illustration on right shows front entrance porch with casting **No. 550** used in column and frieze.



# ORNAMENTAL DOUBLE FACED CASTINGS

SCALE  $1\frac{1}{2}" = 1'-0"$



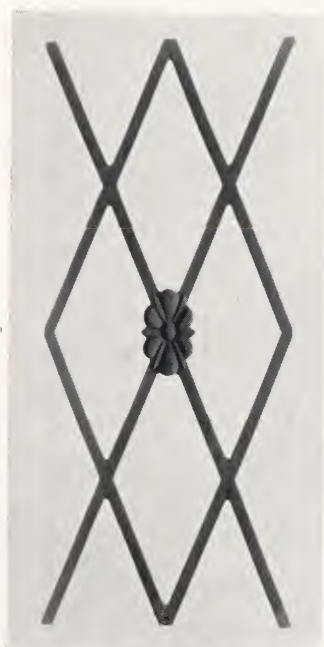
No. 538  
Height 2'-9"

No. 537  
Height 3'-1"

No. 539  
Height 3'-1"

No. 537  
Height 3'-1"

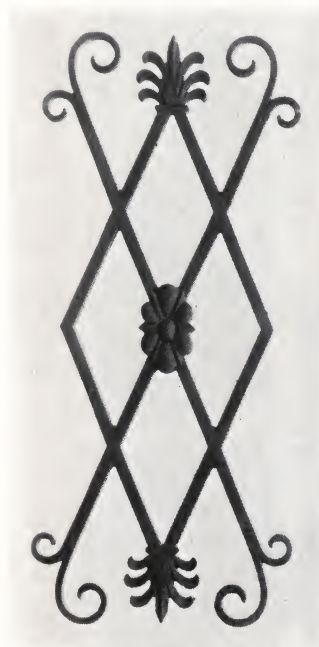
No. 538  
Height 2'-9"



No. 540  
Height 2'- $\frac{5}{8}"$   
Width 10 $\frac{5}{8}"$



No. 521  
Height 2'- $\frac{7}{8}"$   
Width 1'



No. 541  
Height 2'- $\frac{5}{8}"$   
Width 10 $\frac{5}{8}"$



# ORNAMENTAL DOUBLE FACED CASTINGS

SCALE  $1\frac{1}{2}" = 1'-0"$



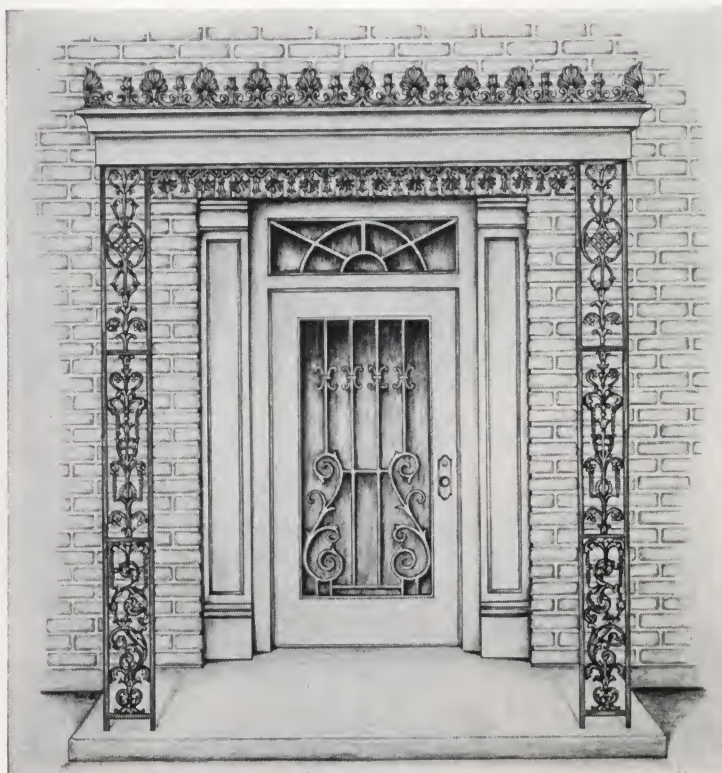
No. 519  
Height:  $2'-8\frac{5}{16}"$   
Width:  $7\frac{1}{16}"$



No. 518  
Height:  $2'-11\frac{1}{8}"$   
Width:  $7\frac{1}{16}"$



No. 517  
Height:  $2'-11\frac{1}{8}"$   
Width:  $7\frac{1}{16}"$



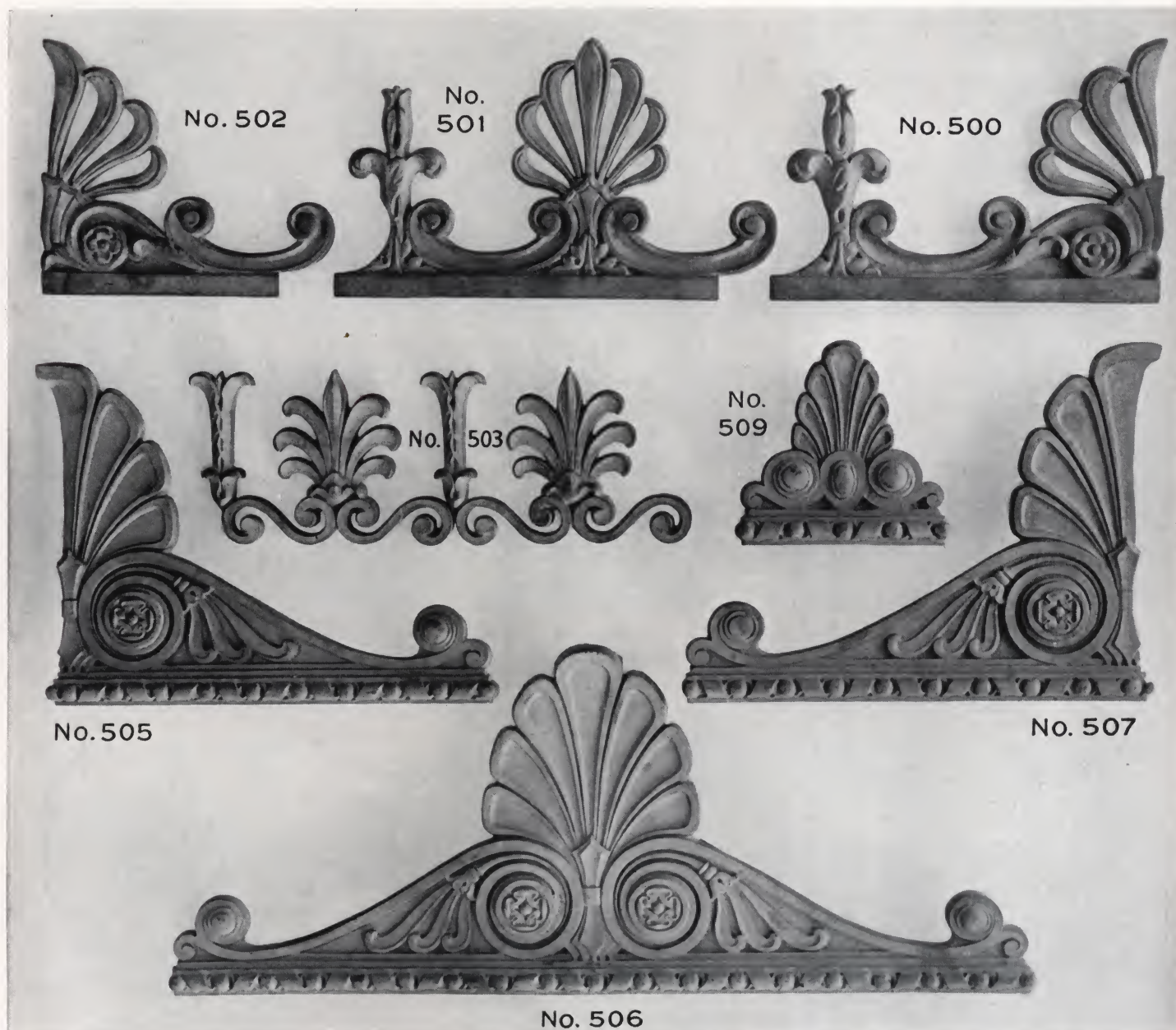
This series of Ornamental Double Faced Castings can be used in combinations or continuous designs. The overall width of all three motifs is the same, permitting the use of any combination in the same bar framing.

The illustration to the left shows all three castings used on one panel. The frieze and cresting are stock castings shown on page 40. Door grille design includes stock casting No. 538 and Collar No. 543.



## CAST IRON CRESTINGS

For the Construction of Marquises, Awning Boxes, Show Cases, Etc.



Illustrations shown are ONE-QUARTER actual size

Corners Nos. 500 and 502 and Corners Nos. 505 and 507 are cast on a mitre and will form a perfect right or left corner. Corners Nos. 505 and 507 and Centers Nos. 506 and 509 have lugs in back for fastening. Crestings Nos. 500, 501 and 502 as well as 503 form continuous interlocking designs. Crestings Nos. 505, 506, 507, 509 can be used as a continuous design or they may be spaced at intervals.

**Our Cast Iron Crestings are a Finished Product of Superb Quality**

**NO PATTERNS**

**NO WAITING**

**NO FINISHING**



## MOULDINGS

FOR many years JULIUS BLUM Mouldings have been used extensively in architectural and ornamental metal work and industrial use.

The large selection shown in the following pages is available from our stock and we are constantly adding to this line new shapes to meet changing requirements.

"JULIUS BLUM" Mouldings have been accepted in many standard forms of construction and fabrication.

The many uses for which these Mouldings are designed include:

*Stair Mouldings—stringer or plate type, Facias, Cornices, Mullions, Risers and Treads, Store Fronts, Partitions, Door Jambs, Bank Screens, Ceiling Lights, Elevator Cabs, Skylights, Panels, Trim, Corners, Windows, Doors, Glass Construction, and ornamentation of many products.*

Mouldings are rolled true and smooth of soft steel, with sharp lines, and are furnished in long straight bars in lengths of about 20 ft.

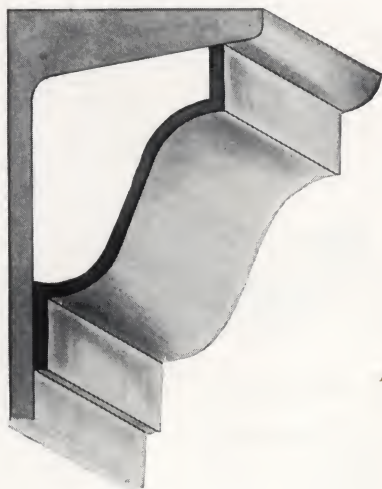
These Shapes are designed for strength as well as appearance and are of ample size and weight to facilitate drilling, tapping, countersinking and welding. They may also be bent, formed or forged.

Illustrations are full size and approximate weights are listed.

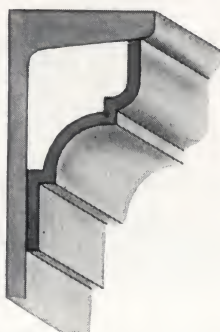


## STAIR STRINGER AND FACIA CONSTRUCTIONS

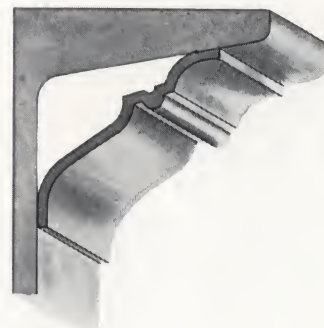
Channel Stringer with Moulding  
No. 4305 top and bottom.



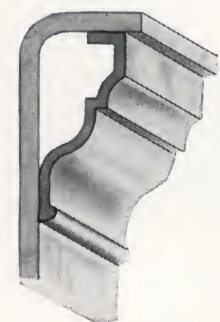
Special 10" or 12"  
Stringer Channel.  
Moulding No. 4303  
top and bottom.



Channel Stringer with Moulding  
No. 4315 top and bottom.



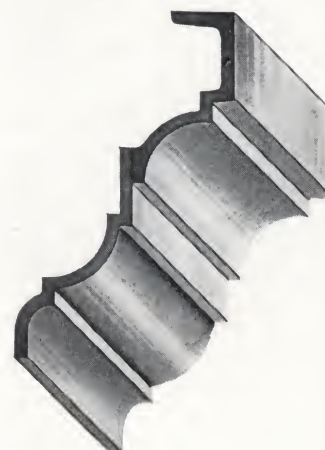
## BUILT-UP CORNICES



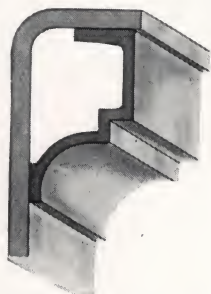
Bent Plate Channel  
Stringer with  
Moulding No. 4159  
top and bottom.



Showing Mouldings  
Nos. 4360 and 4356



Showing Mouldings  
Nos. 4173 and 4302

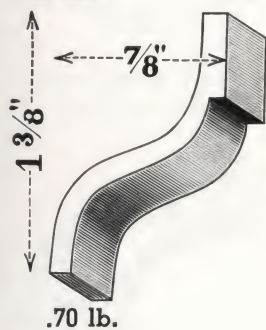


Bent Plate Channel Stringer  
with Moulding No. 4173  
top and bottom.

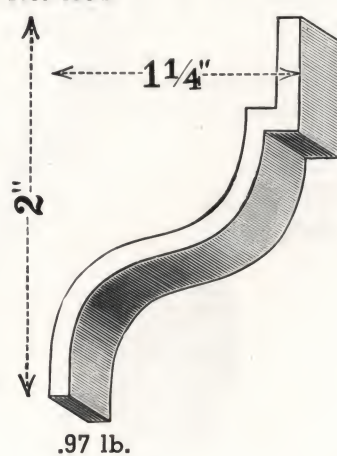
We attempt to show a few methods of constructing large cornices or facias by means of Rolled Steel Mouldings and standard shapes. An unlimited variety of designs, plain or ornamented, may be assembled in like manner.



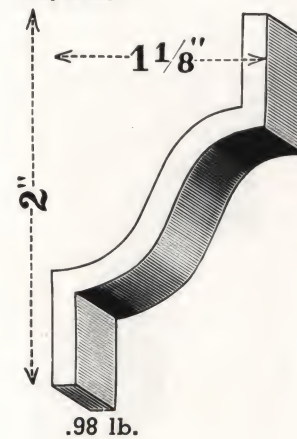
No. 4300



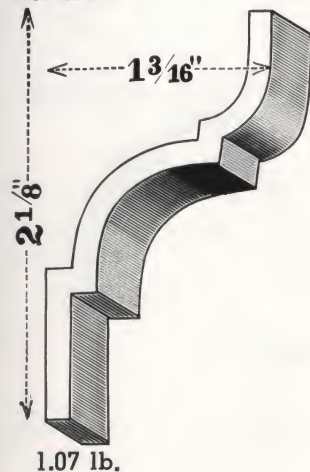
No. 4304



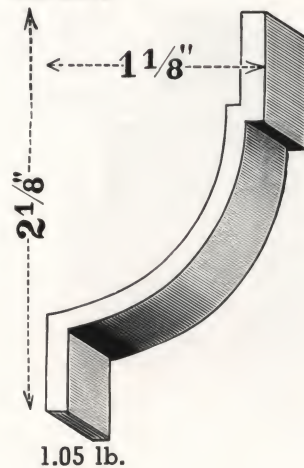
No. 4305



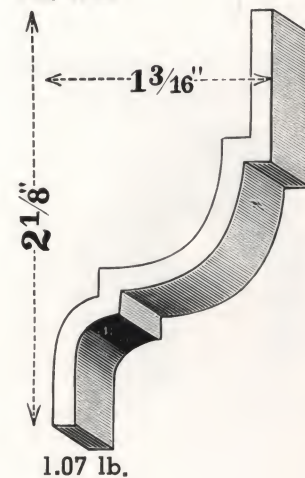
No. 4303



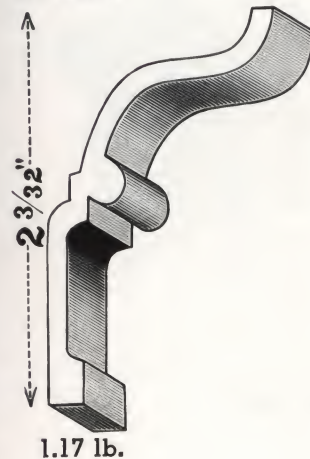
No. 4312



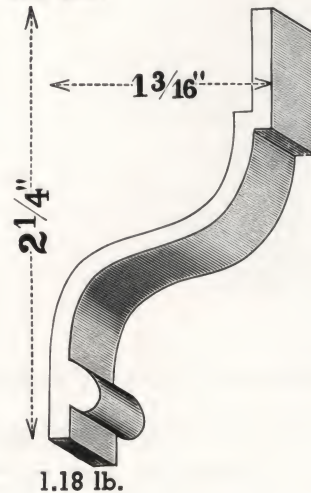
No. 4302



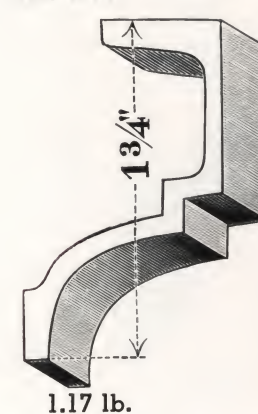
No. 4309



No. 4307



No. 4173





## STAIR STRINGER AND FACIA CONSTRUCTIONS

Plate Wall Stringer with  
Moulding No. 4226.



Plate Wall Stringer with  
Moulding No. 4225.

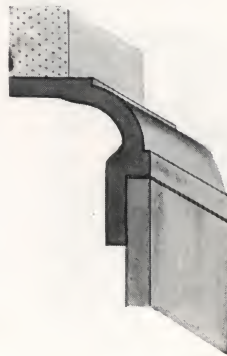


Plate Wall Stringer with  
Moulding No. 4310.

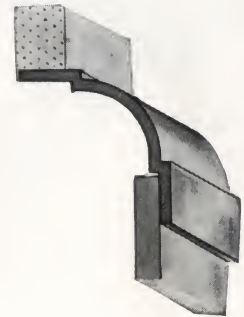
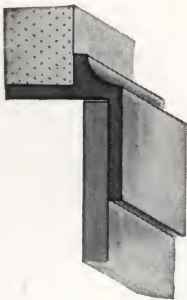
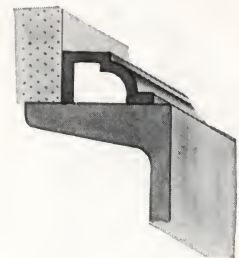


Plate Wall Stringer with  
Moulding No. 4610.



Channel Wall Stringer with  
Moulding No. 4130.



Wainscoting or Plate Wall  
Stringer with Moulding  
No. 4280.

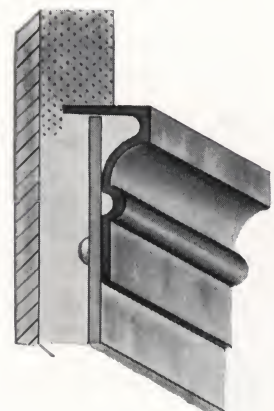
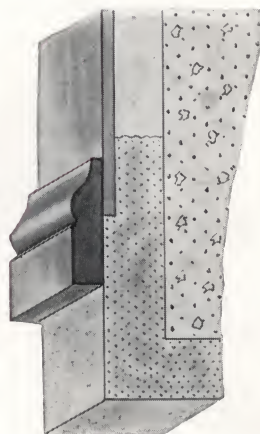


Plate Facia with Chan-  
nel No. 4760 on top.  
Moulding No. 4450  
used for plaster soffit  
stop.

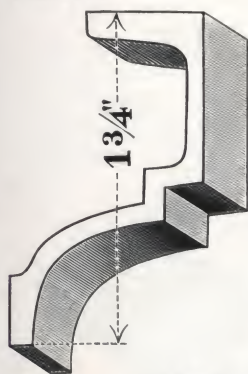


Details shown are ONE-HALF actual size

SUITABLE MOULDINGS, PLAIN OR ORNAMENTED, MAY BE USED FOR  
PANELING STRINGERS AND FACIAS



No. 4173



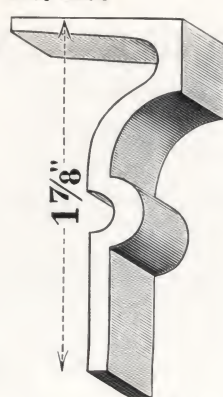
1.17 lb.

No. 4159



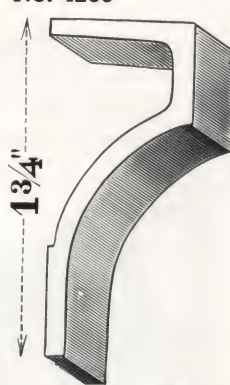
1.00 lb.

No. 4280



1.10 lb.

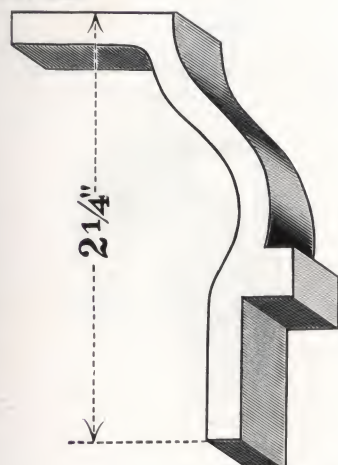
No. 4265



.93 lb.

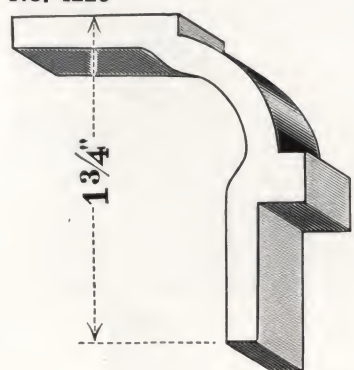
**WALL STRING MOULDINGS**

No. 4226



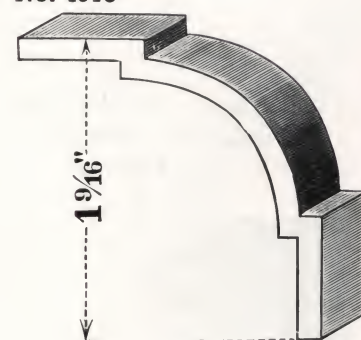
1.90 lb.

No. 4225



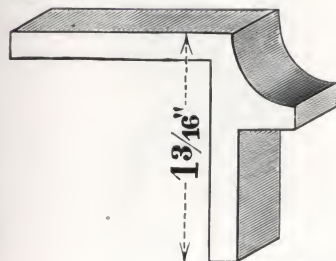
1.70 lb.

No. 4310



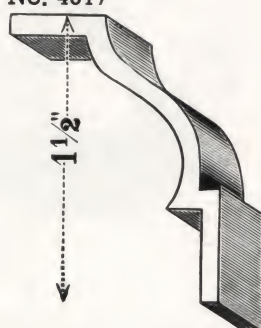
1.00 lb.

No. 4610



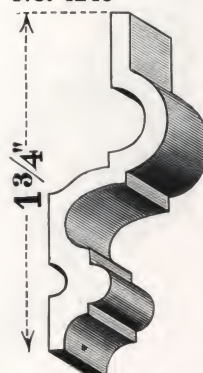
1.15 lb.

No. 4317



.90 lb.

No. 4240



.84 lb.



## STAIR STRINGER AND FACIA CONSTRUCTIONS

Plate Stringer with Moulding  
No. 5172 top and bottom.

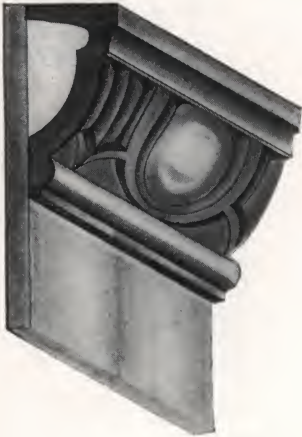


Plate Stringer with Moulding  
No. 4153 top and bottom.

Panels Moulding No. 4257. Plaster Soffit Stop Moulding No. 4471.



Plate Stringer with Moulding  
No. 4172 top and bottom.

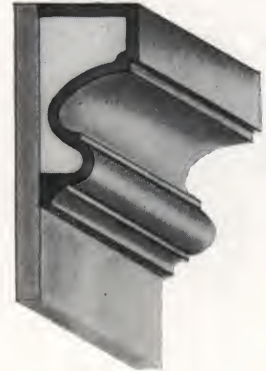


Plate Stringer with Moulding  
No. 4243 on top and  
No. 4241 on bottom.



Plate Stringer with Moulding  
No. 4154 top and bottom.

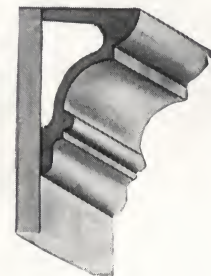
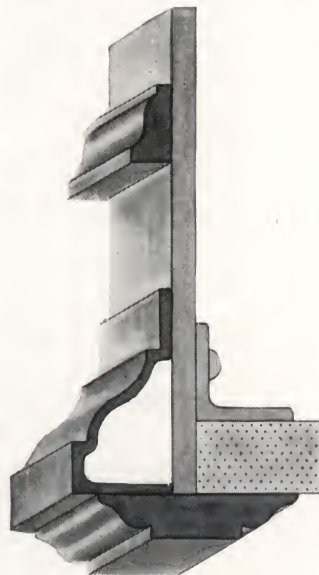
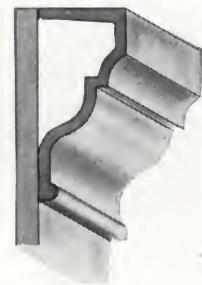


Plate Stringer with Moulding  
No. 4152 top and bottom.

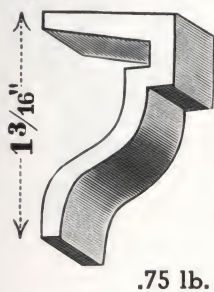


Details shown are ONE-HALF actual size

SUITABLE MOULDINGS, PLAIN OR ORNAMENTED, MAY BE USED  
FOR PANELING STRINGERS AND FACIAS

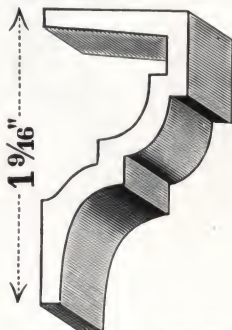


No. 4157



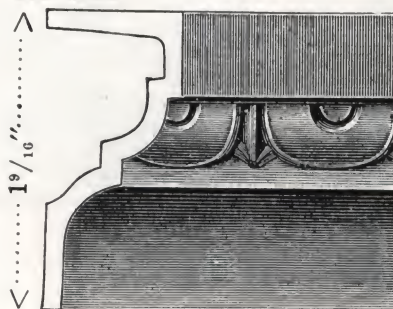
.75 lb.

No. 4151



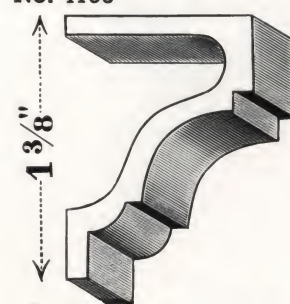
.93 lb.

No. 5156



1.05 lb.

No. 4156



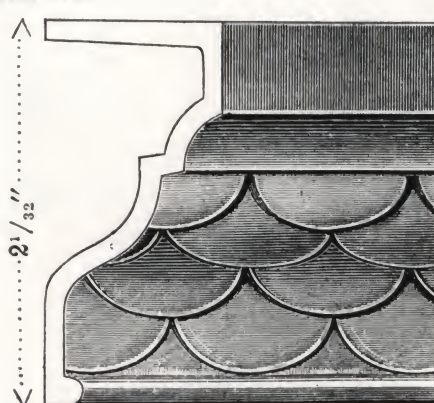
1.00 lb.

No. 4152



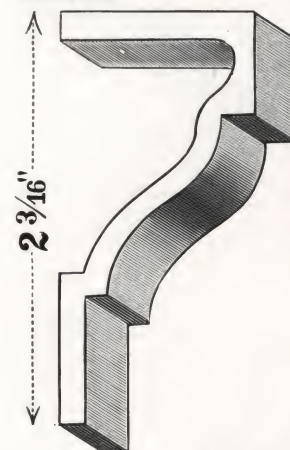
1.35 lb.

No. 5157



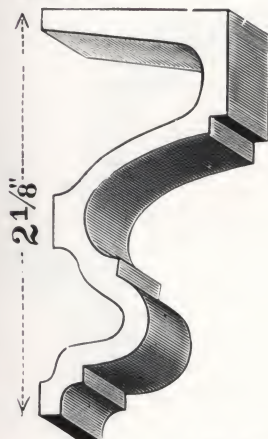
1.40 lb.

No. 4153



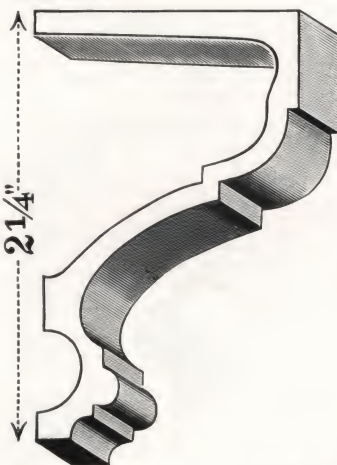
1.33 lb.

No. 4172



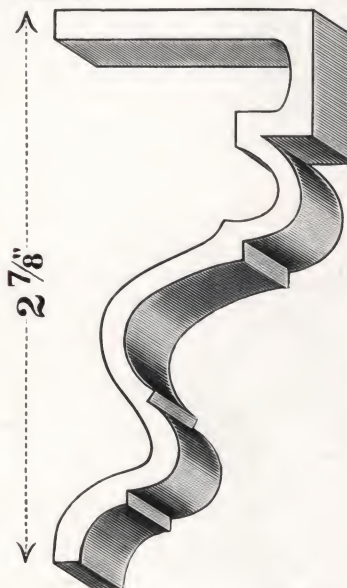
1.70 lb.

No. 4171



2.08 lb.

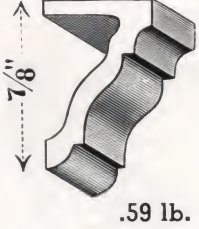
No. 4170



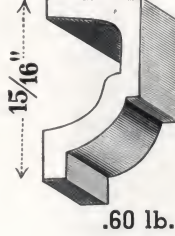
2.54 lb.



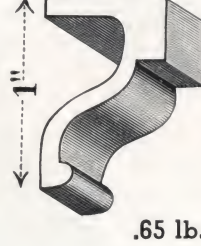
No. 4133



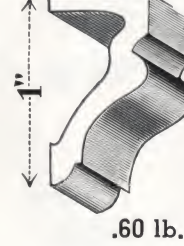
No. 4130



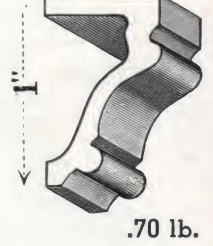
No. 4132



No. 4131



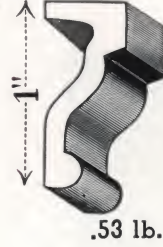
No. 4134



No. 4203



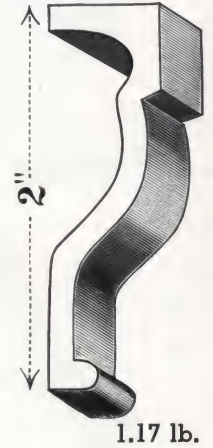
No. 4142



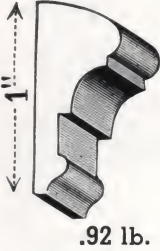
No. 4141



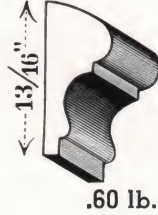
No. 4140



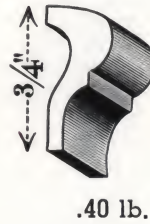
No. 4144



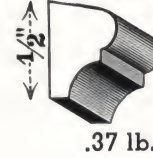
No. 4126



No. 4201



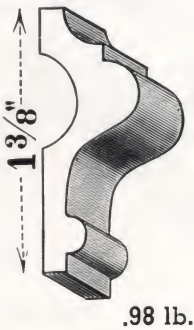
No. 4200



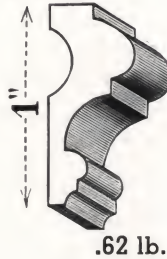
No. 4208



No. 4255



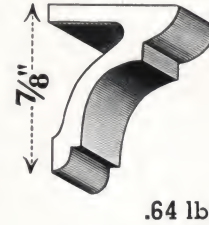
No. 4254



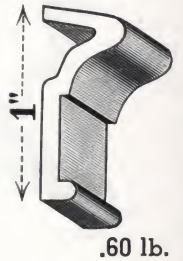
No. 4250



No. 4143

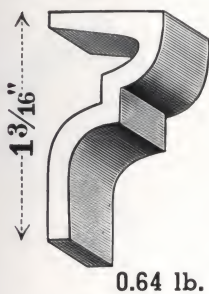


No. 4204



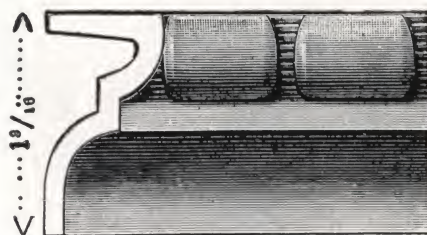


No. 4150



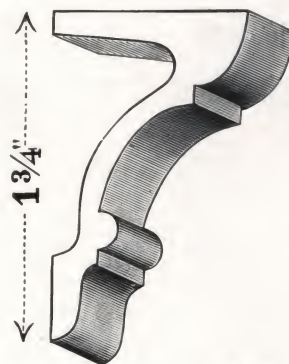
0.64 lb.

No. 5155



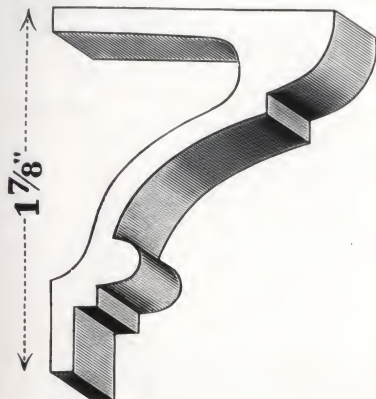
0.80 lb.

No. 4154



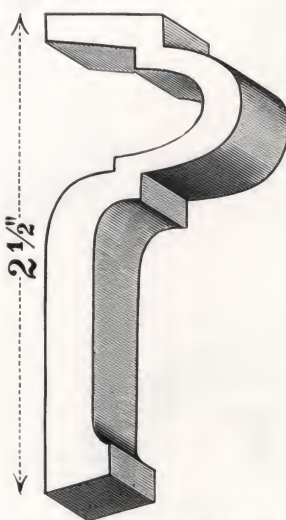
1.34 lb.

No. 4155



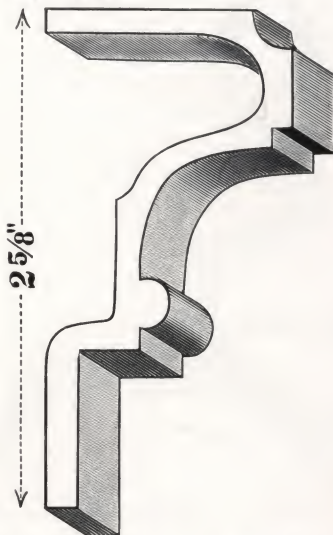
1.84 lb.

No. 4161



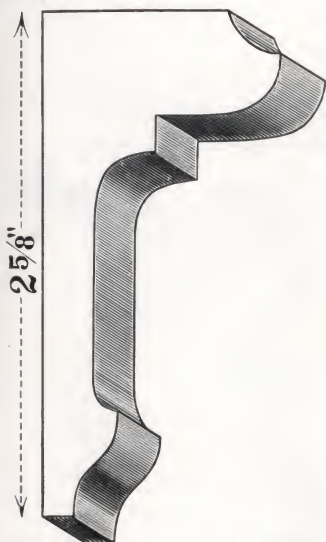
2.45 lb.

No. 4162



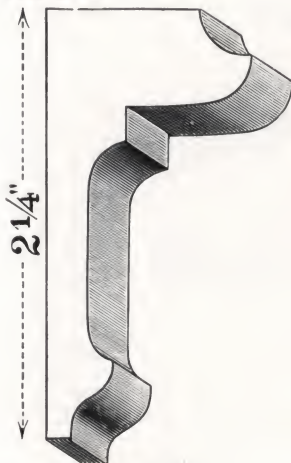
2.02 lb.

No. 4243



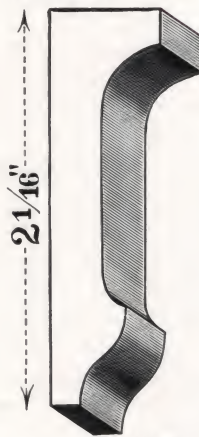
4.00 lb.

No. 4242



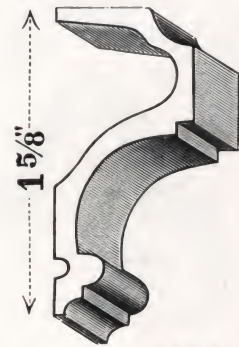
3.24 lb.

No. 4241



2.14 lb.

No. 4163



1.12 lb.



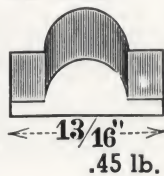
No. 4404



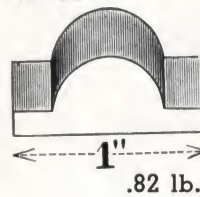
No. 4401



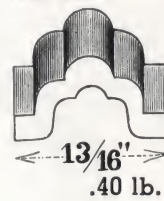
No. 4402



No. 4403



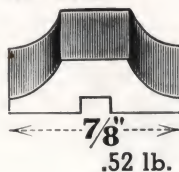
No. 4482



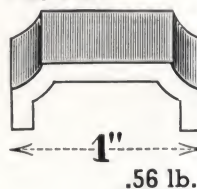
No. 4491



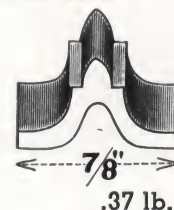
No. 4432



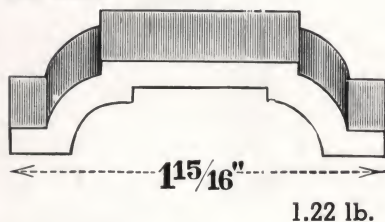
No. 4421



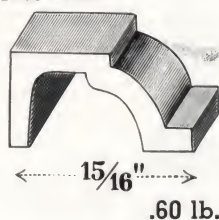
No. 4492



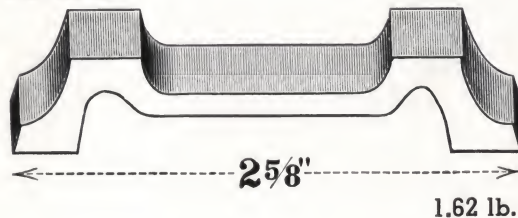
No. 4423



No. 4130

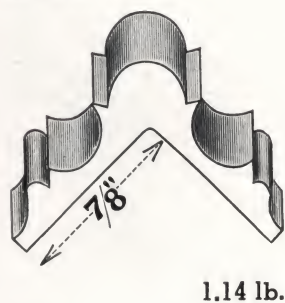


No. 4442

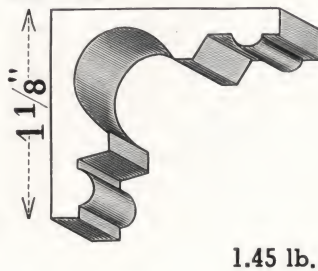


Moulding No. 4423 will form a perfect mitre with Moulding No. 4130.

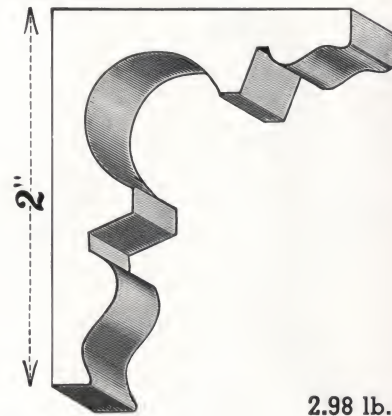
No. 4489



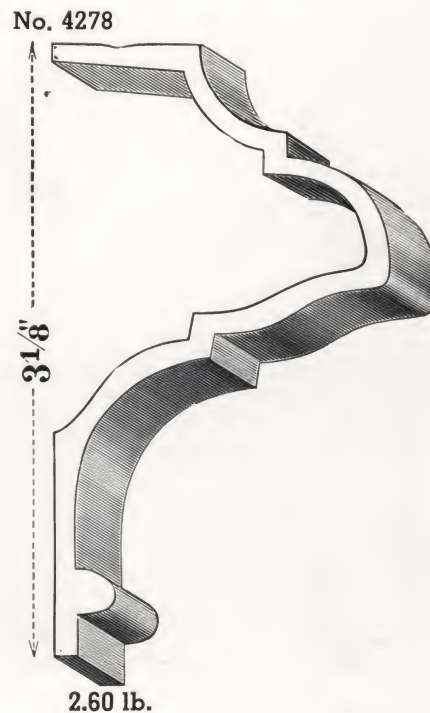
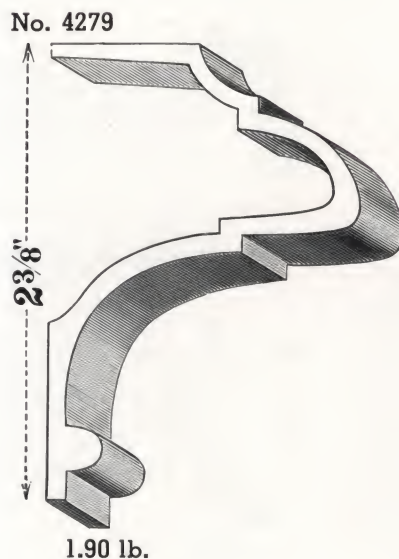
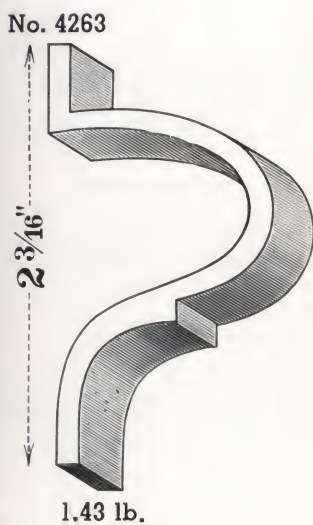
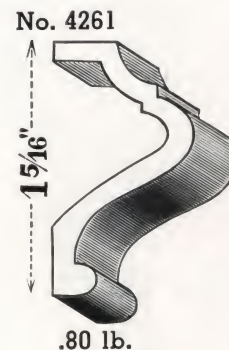
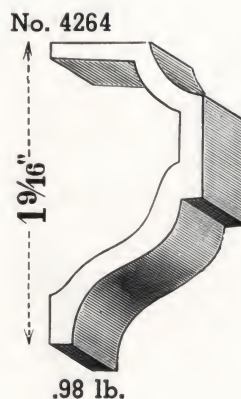
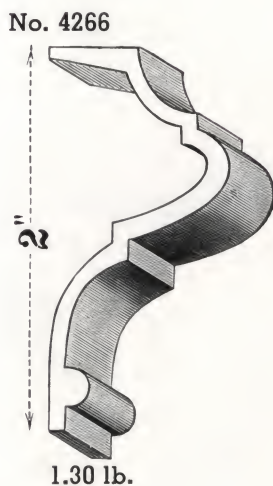
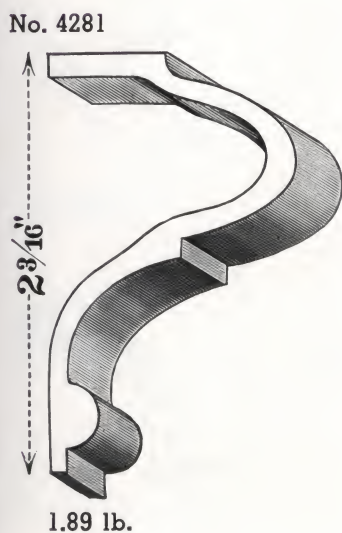
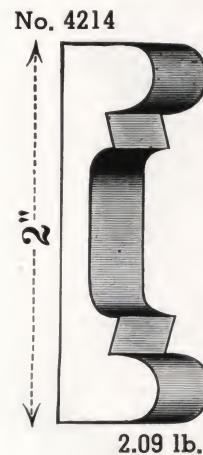
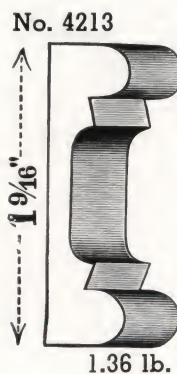
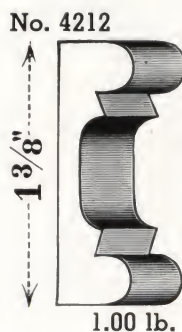
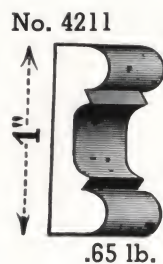
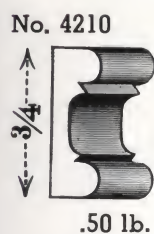
No. 4495



No. 4496





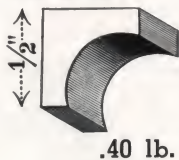




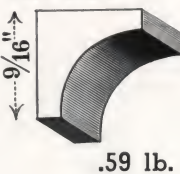
No. 4101



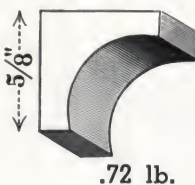
No. 4102



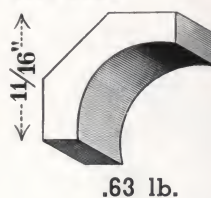
No. 4103



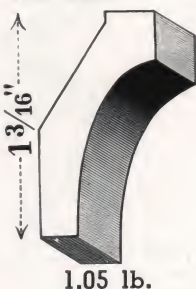
No. 4110



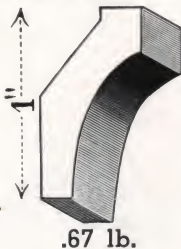
No. 4104



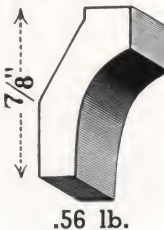
No. 4108



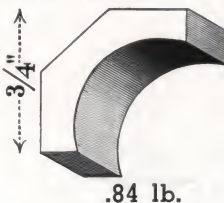
No. 4107



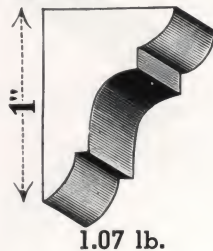
No. 4106



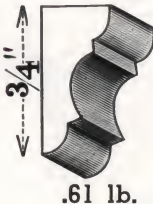
No. 4105



No. 4120



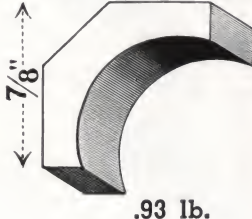
No. 4480



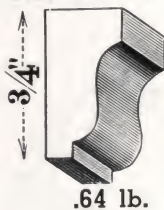
No. 4119



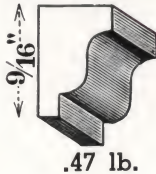
No. 4109



No. 4257



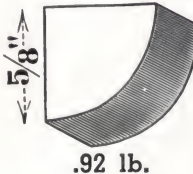
No. 4258



No. 4121



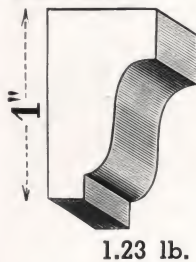
No. 4486



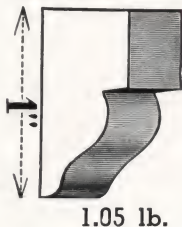
No. 4485



No. 4256



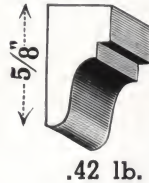
No. 4451



No. 4473



No. 4125

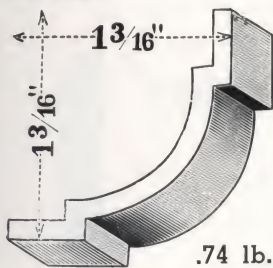


No. 4123

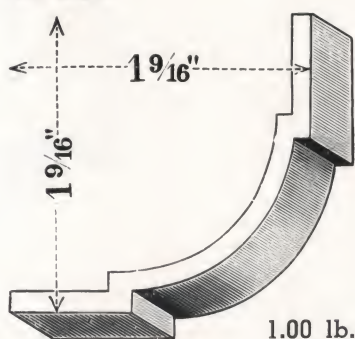




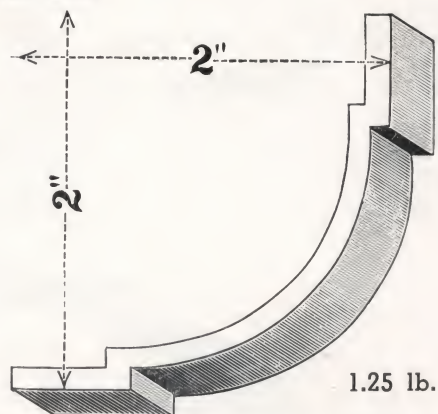
No. 4320



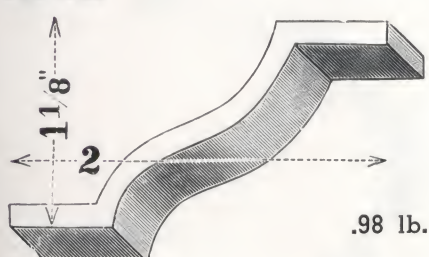
No. 4310



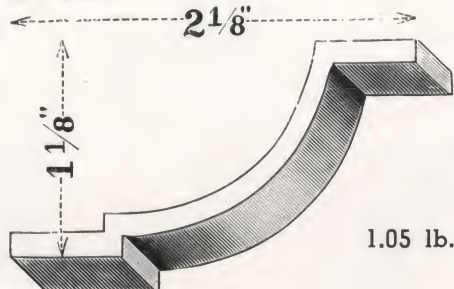
No. 4330



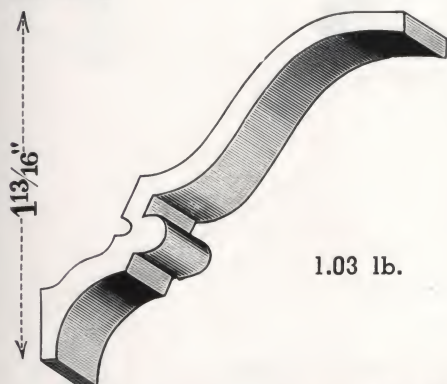
No. 4322



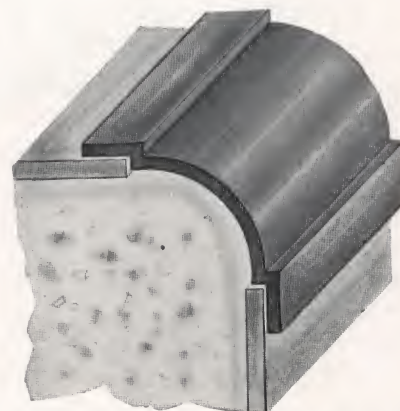
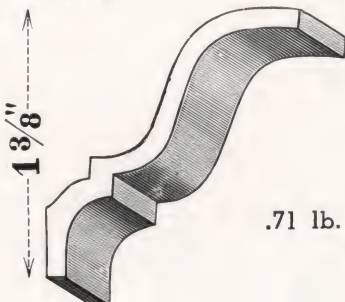
No. 4323



No. 4315

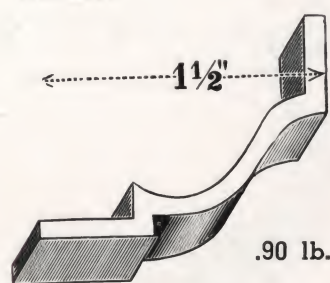


No. 4316



Detail showing Mouldings Nos. 4310, 4320, 4330 used for Corner Guards.

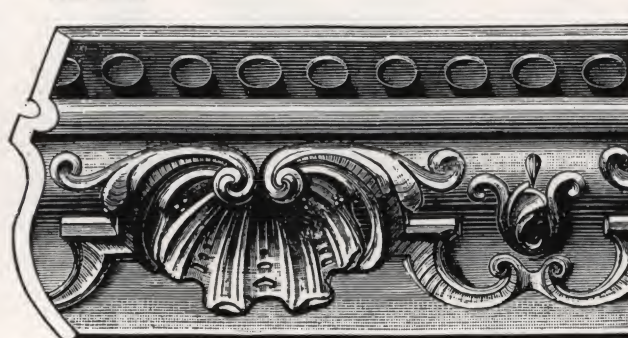
No. 4317



No. 5150



No. 5151

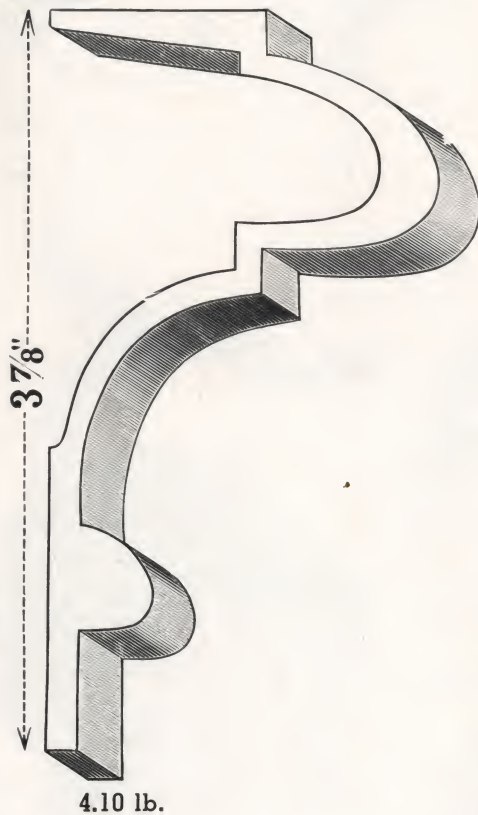


1.24 lb.

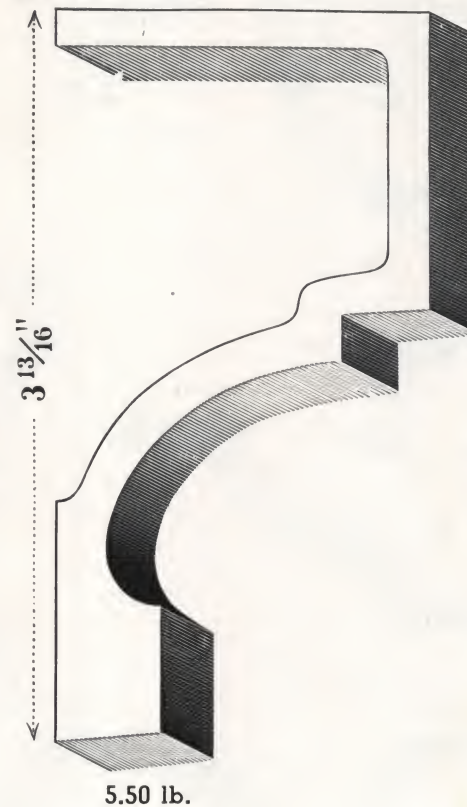
.76 lb.



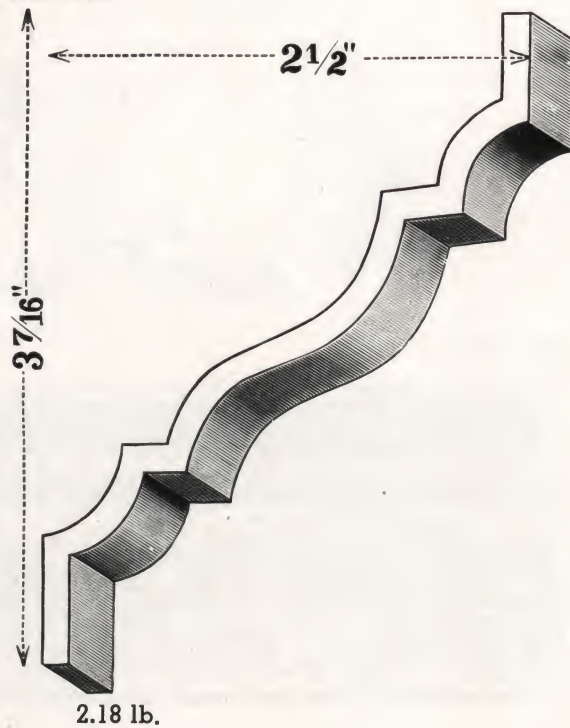
No. 4350



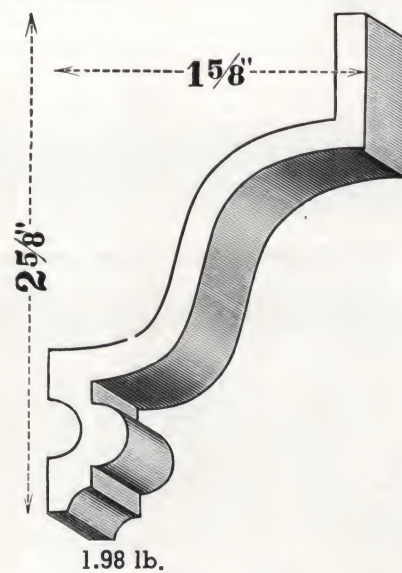
No. 4285



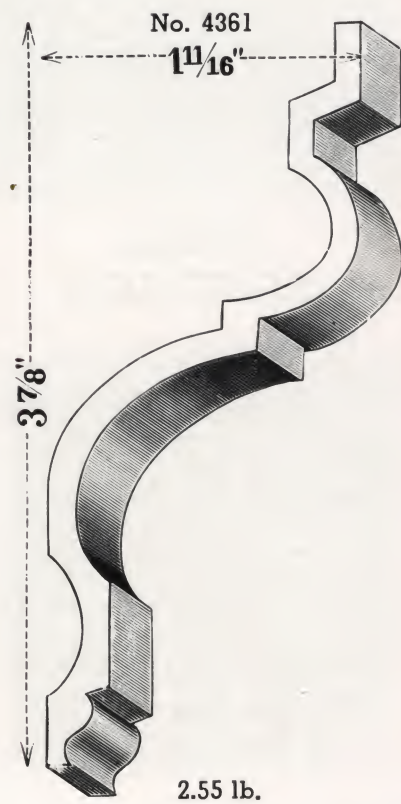
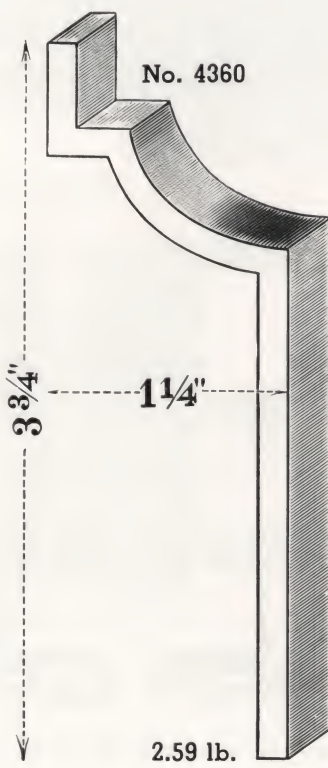
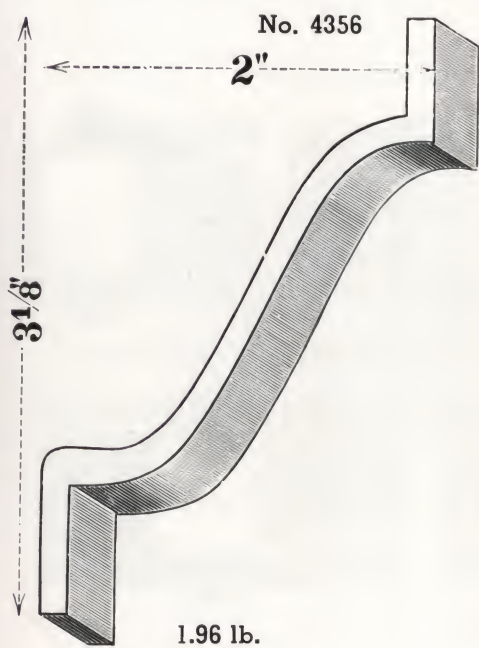
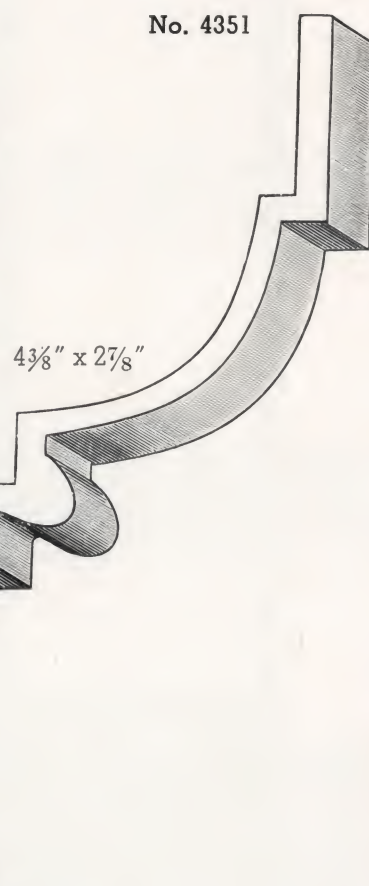
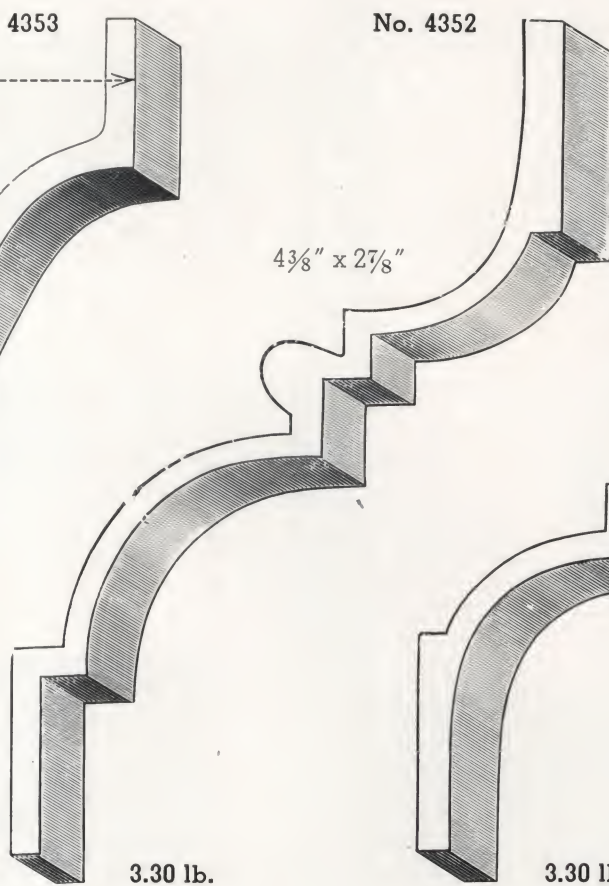
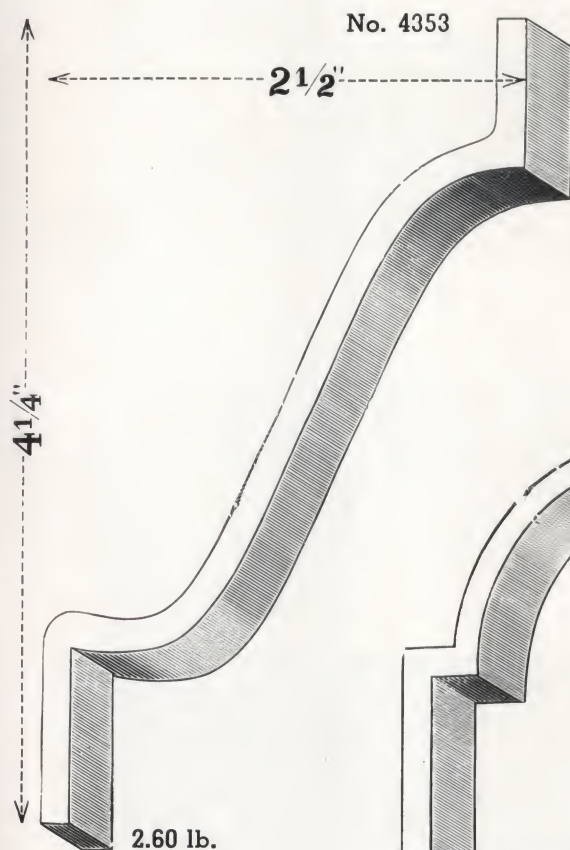
No. 4355



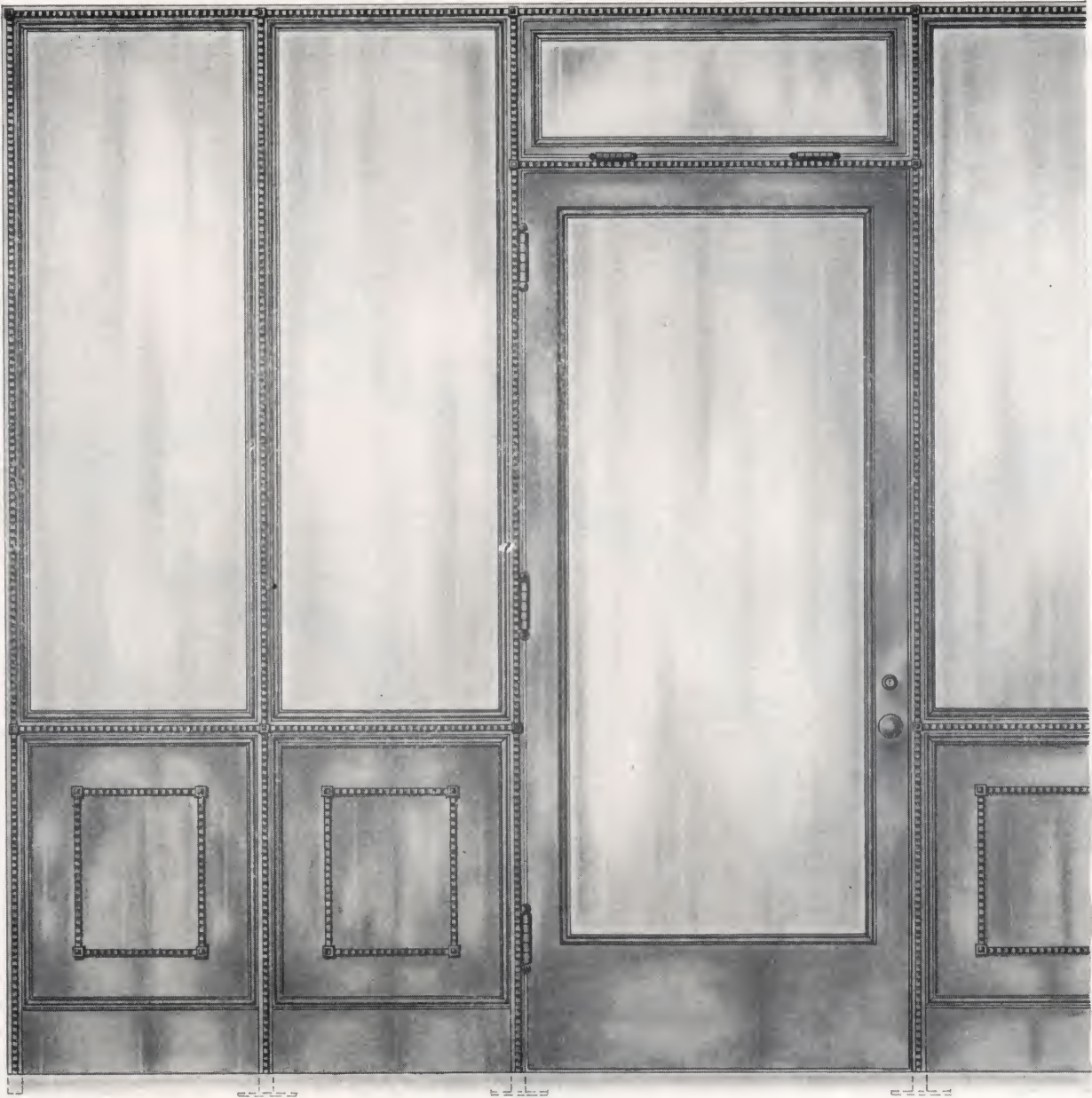
No. 4354





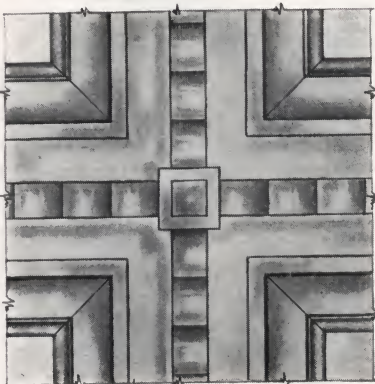




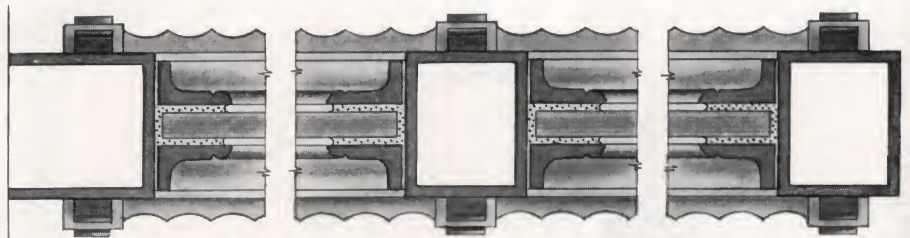


## STEEL PARTITION

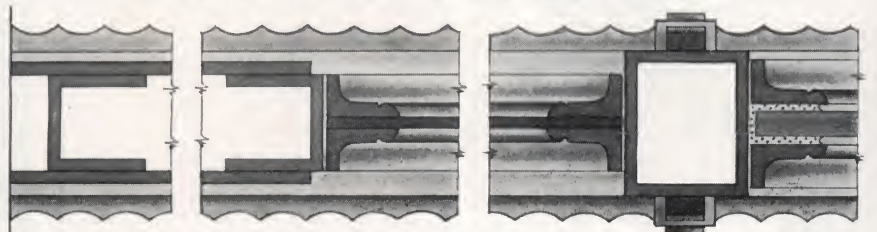
Front view of intersection



*Plan Section from wall to door jamb*



*Cross Section from floor through sheet metal base to glass frame*

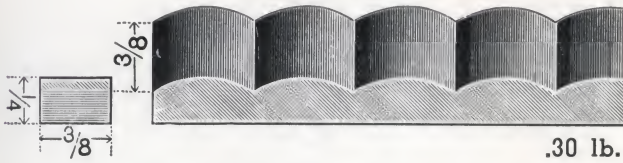


Details shown are ONE-HALF actual size



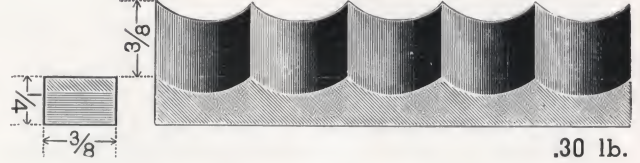
## MODERNISTIC DESIGNS

No. 5300  $\frac{3}{8}$ " wide x  $\frac{1}{4}$ " high



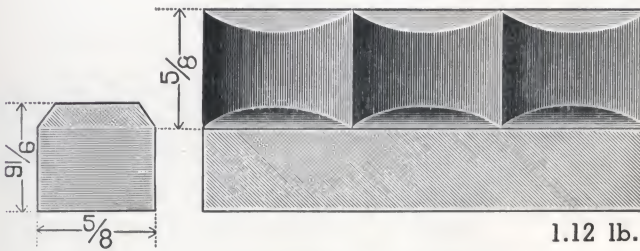
.30 lb.

No. 5301  $\frac{3}{8}$ " wide x  $\frac{1}{4}$ " high



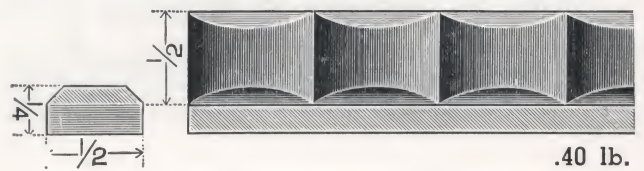
.30 lb.

No. 5303  $\frac{5}{8}$ " wide x  $\frac{9}{16}$ " high



1.12 lb.

No. 5302  $\frac{1}{2}$ " wide x  $\frac{1}{4}$ " high



.40 lb.



**MULLION**

Two Channels and Plates forming square or rectangular Mullion with moulded offsets.

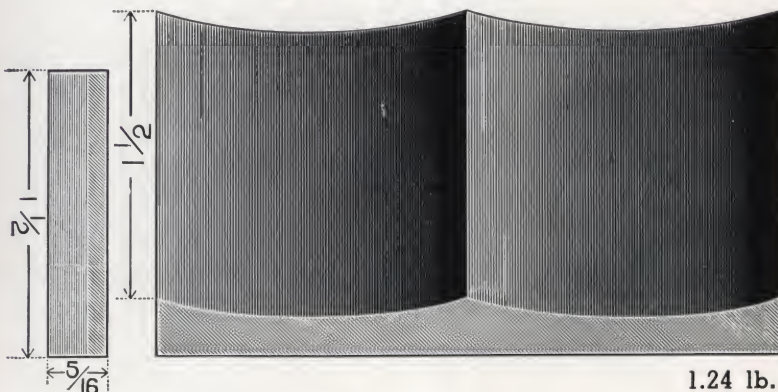
Mouldings Nos. 5303 and 5308 used for trim on face member.

No. 5305



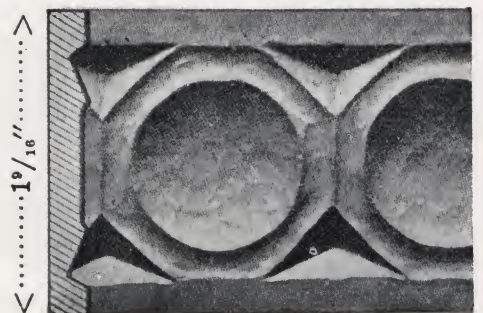
1.46 lb.

No. 5308  $1\frac{1}{2}$ " wide x  $\frac{5}{16}$ " high



1.24 lb.

No. 5306

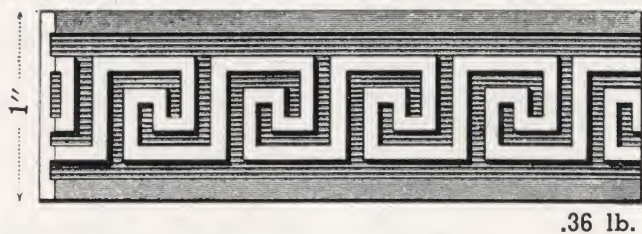


.96 lb.

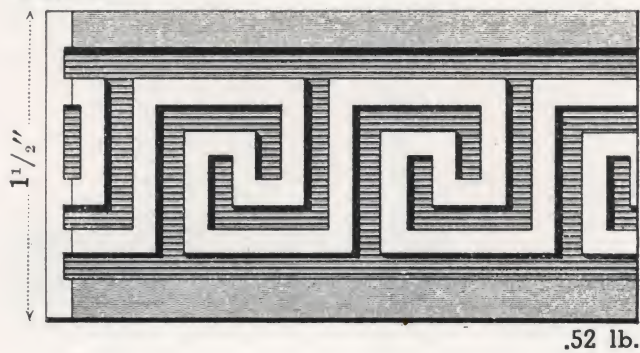
On account of the simplicity of their design, these mouldings harmonize with plain and angular members used for iron work in the modern manner. These mouldings also lend themselves advantageously to ornamental work showing a combination of iron with brass, bronze, aluminum, etc.



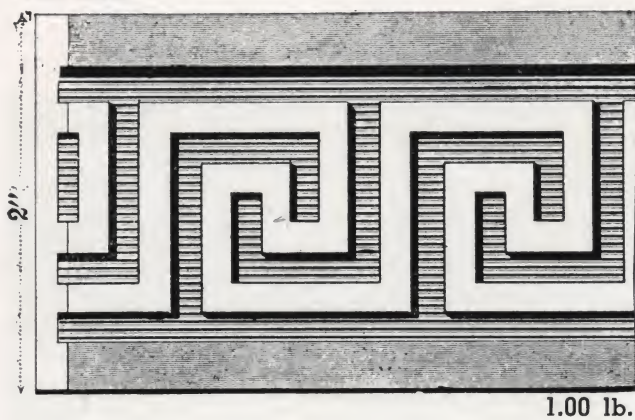
No. 5070



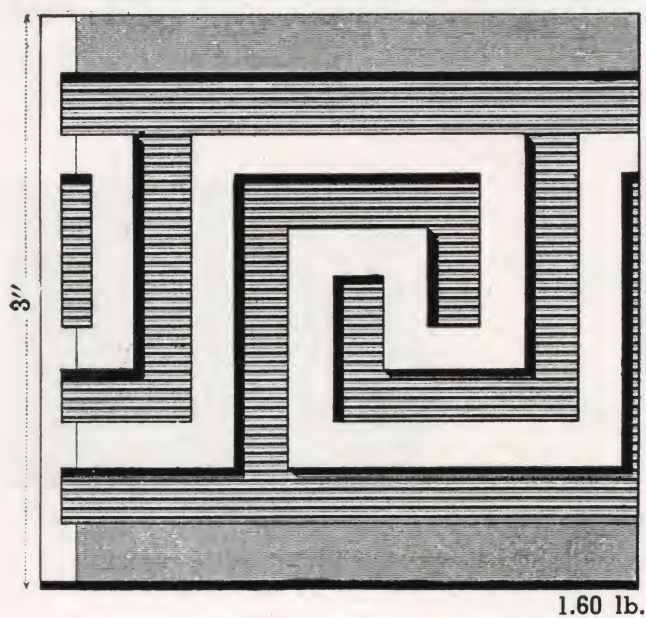
No. 5071



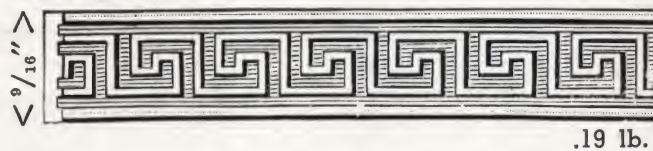
No. 5072



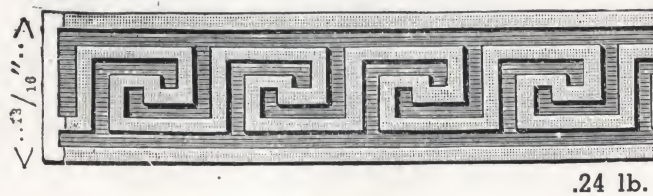
No. 5074



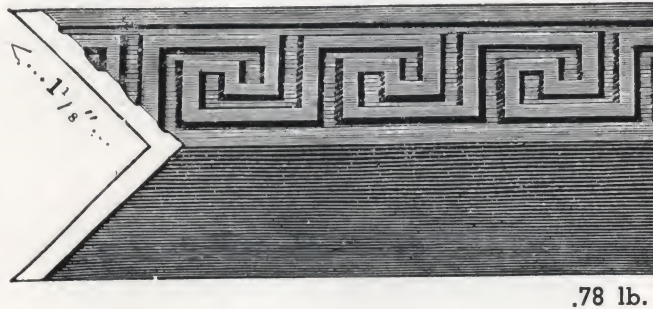
No. 5061



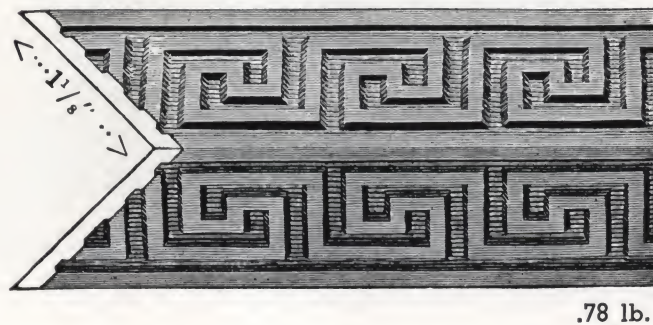
No. 5060



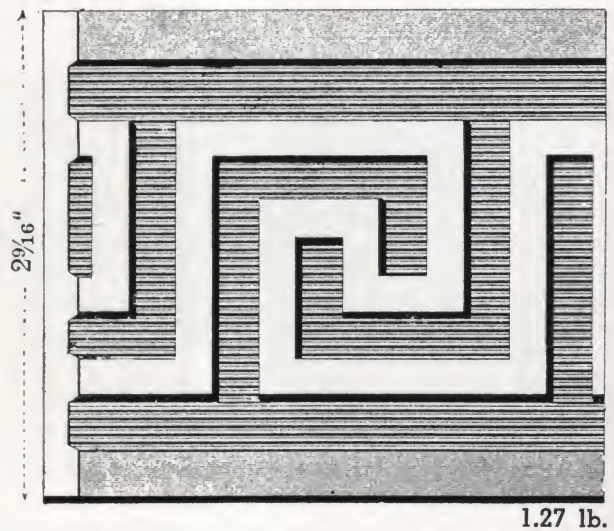
No. 5105



No. 5101

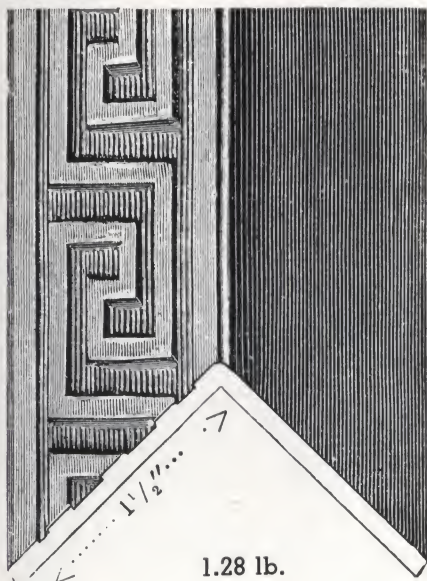


No. 5073



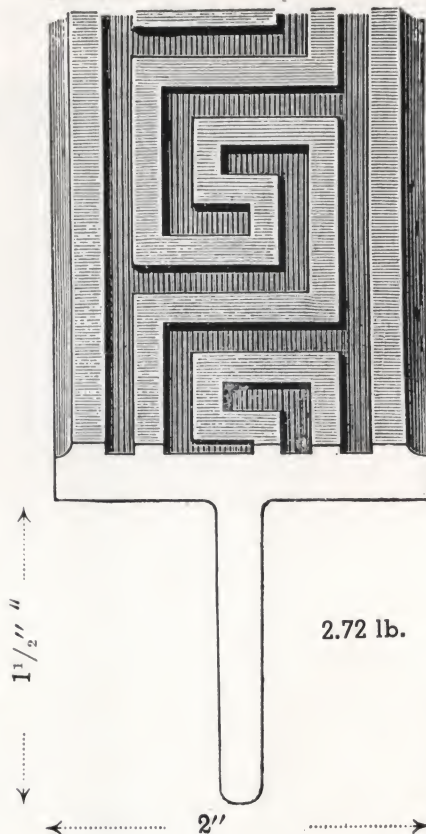


No. 5106



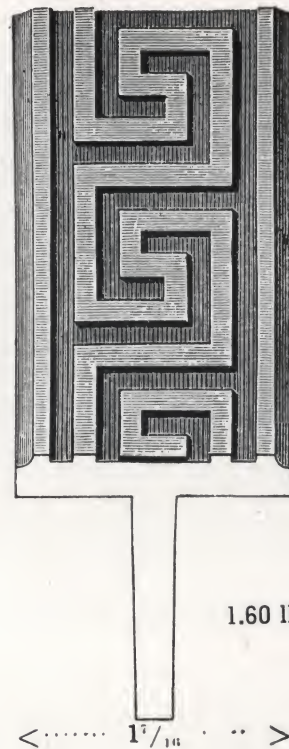
1.28 lb.

No. 5107



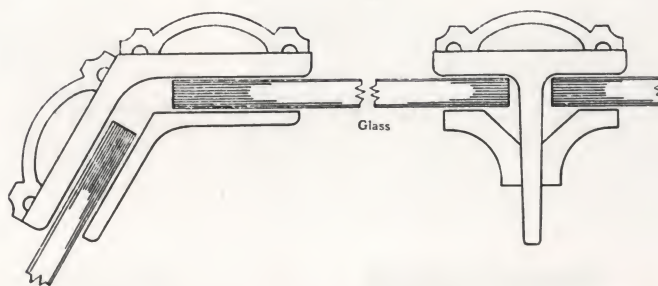
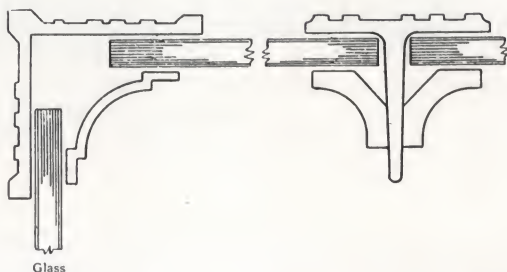
2.72 lb.

No. 5108

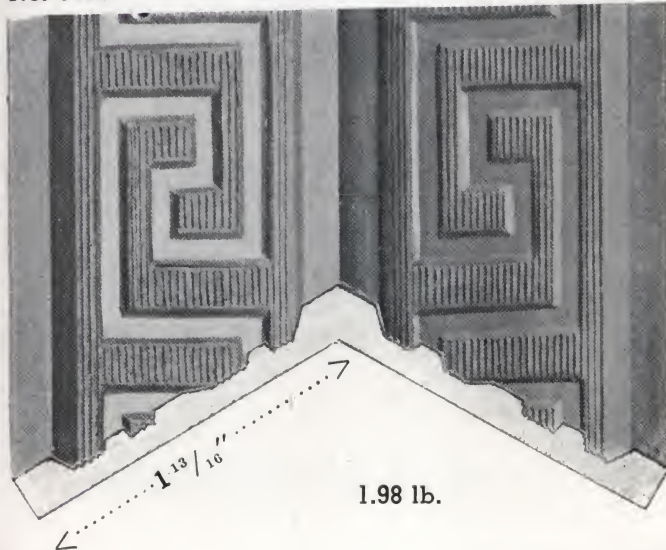


1.60 lb.

Showing Store Front or similar Glass Construction using (left) Mouldings Nos. 5102 and 5107 with Nos. 4320 and 4105 for glass stop. (right) Angle No. 4648 with Moulding No. 5052. Angle No. 4647 and Moulding No. 4105 used for glass stop.

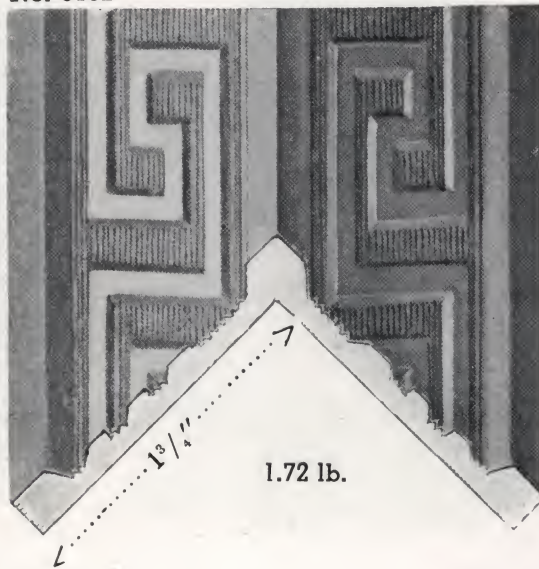


No. 5100



1.98 lb.

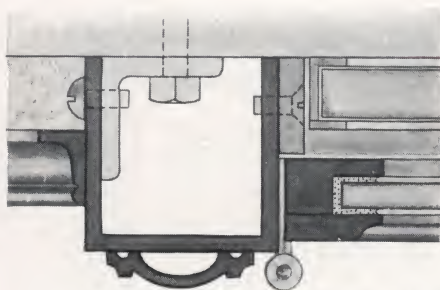
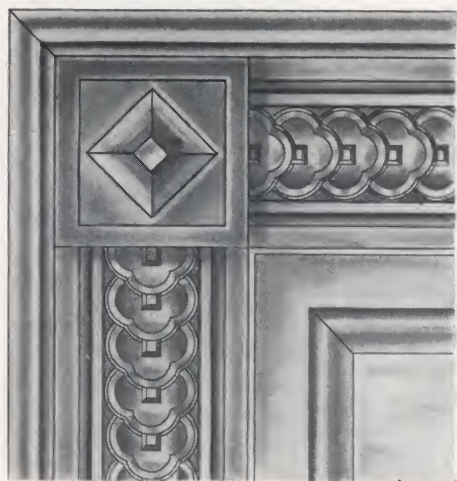
No. 5102



1.72 lb.



## DIRECTORY OR SIGN BOARD



**Specification:** *Frame*—Channel No. 4752 trimmed with Moulding No. 5051. *Corner*—Square plate with Forged Nail No. 64 in center. Moulding No. 4121 used as plaster stop. *Hinged Glass Frame*—Moulding No. 4460 with No. 4450.

The board is fastened to the wall by angle knees, concealed inside the channel frame.



### MULLION

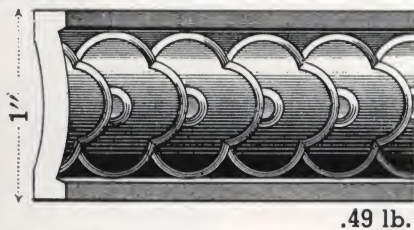
**Specification:** Hot Rolled 4" x 4" x  $\frac{3}{16}$ " Square Steel Tubing trimmed with Mouldings Nos. 5201 and 4258. Glass frame Moulding No. 4256 (stationary). For swinging glass frames, use Mouldings Nos. 4625, 4626, 4627, 4628, 4629.

For other Mullion Constructions, see Page Nos. 56, 74, 106.

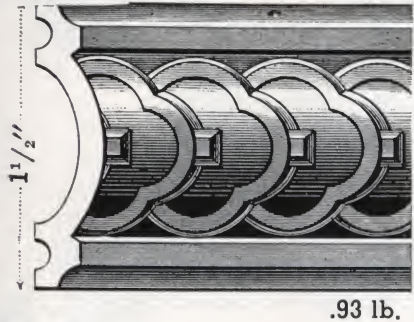
Details shown are ONE-HALF actual size



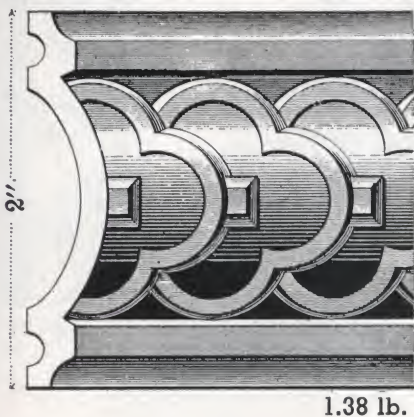
No. 5050



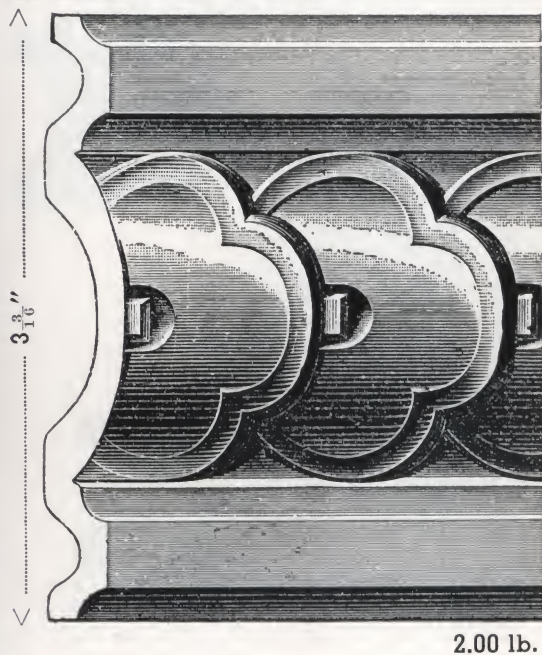
No. 5051



No. 5052



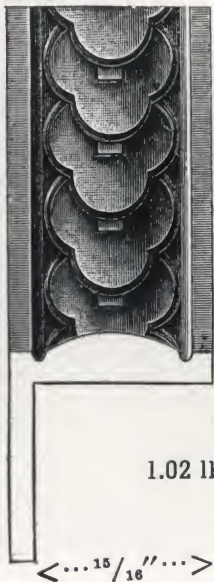
No. 5054



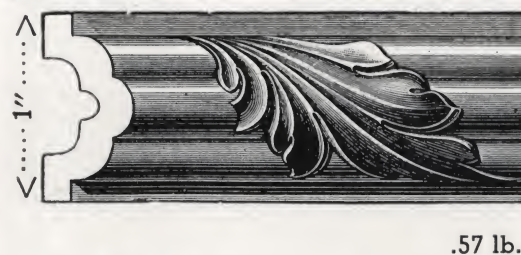
No. 5214



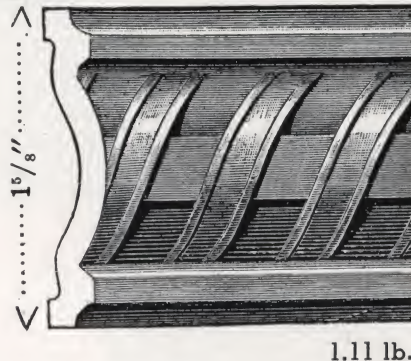
No. 5063



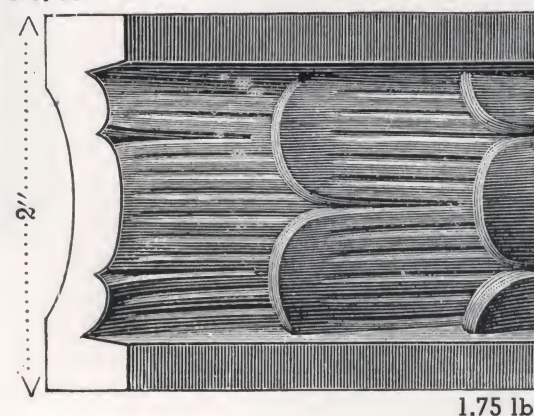
No. 5002



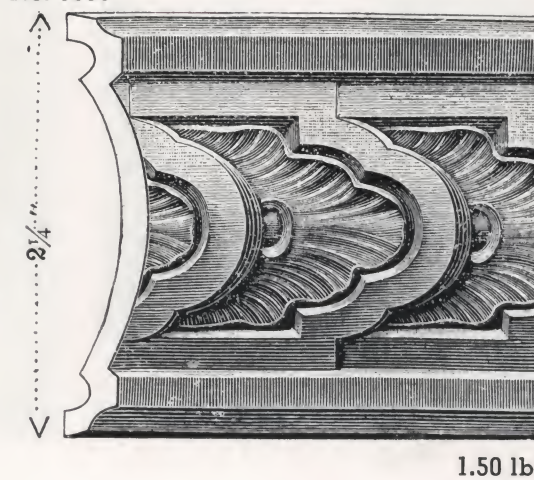
No. 5003



No. 5005

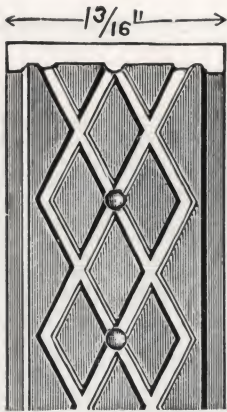


No. 5053



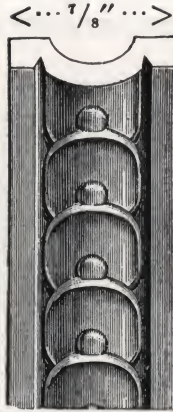


No. 5023



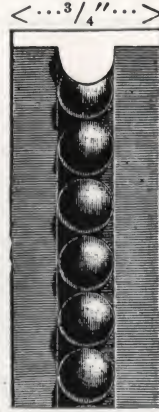
.51 lb.

No. 5024



.40 lb.

No. 5013



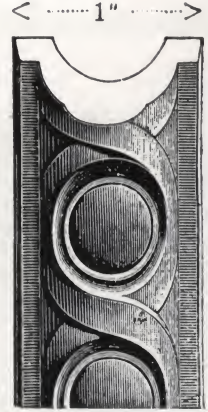
.38 lb.

No. 5020



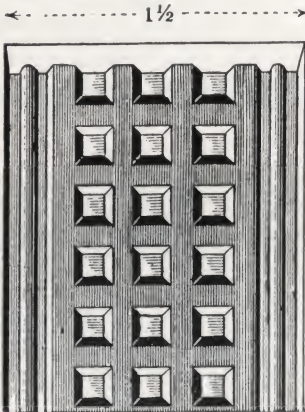
.25 lb.

No. 5001



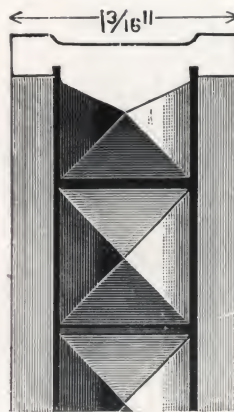
.67 lb.

No. 5062



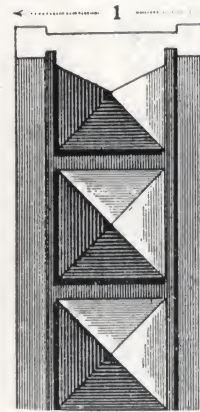
.64 lb.

No. 5027



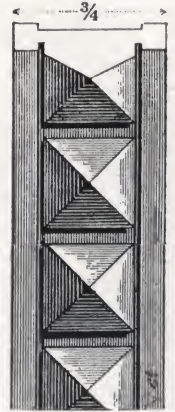
.68 lb.

No. 5026



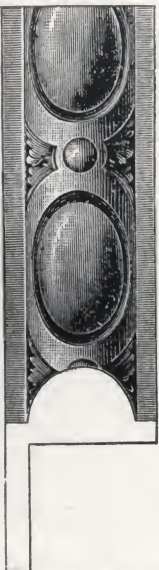
.50 lb.

No. 5025



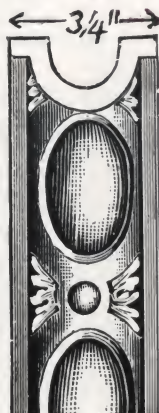
.42 lb.

No. 5010



.76 lb.

No. 5021



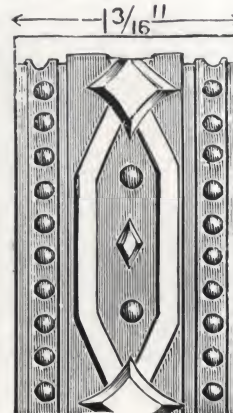
.48 lb.

No. 5000



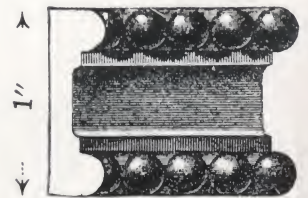
.29 lb.

No. 5022



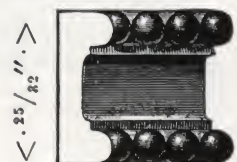
.50 lb.

No. 5012



.65 lb.

No. 5011



.49 lb.



No. 5170



.67 lb.

No. 5171



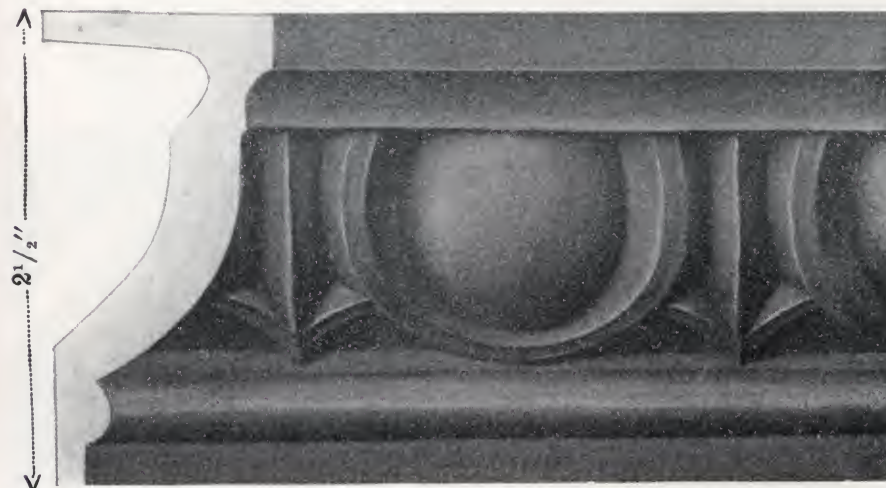
1.32 lb.

No. 5172



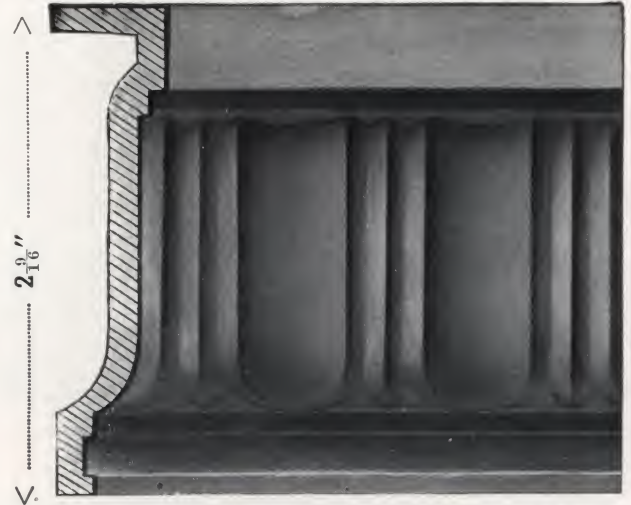
2.24 lb.

No. 5173



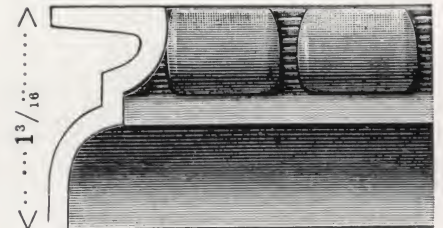
3.25 lb.

No. 5174



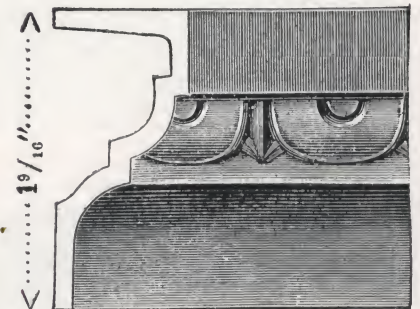
1.55 lb.

No. 5155



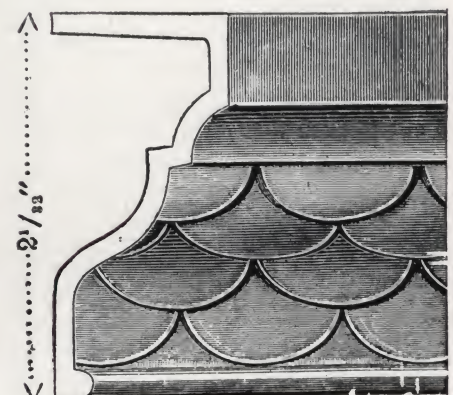
.80 lb.

No. 5156



1.05 lb.

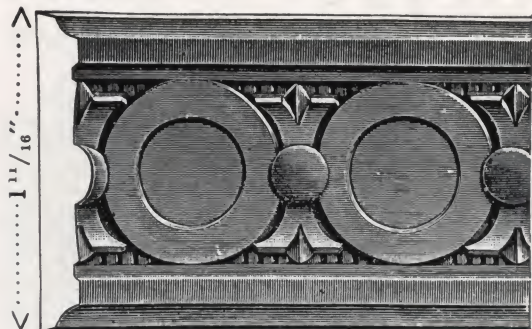
No. 5157



1.40 lb.

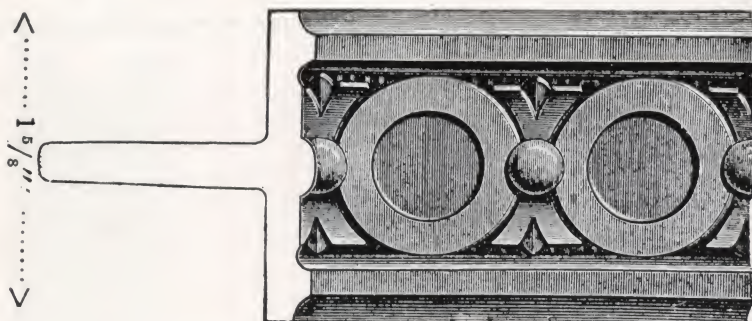


No. 5112



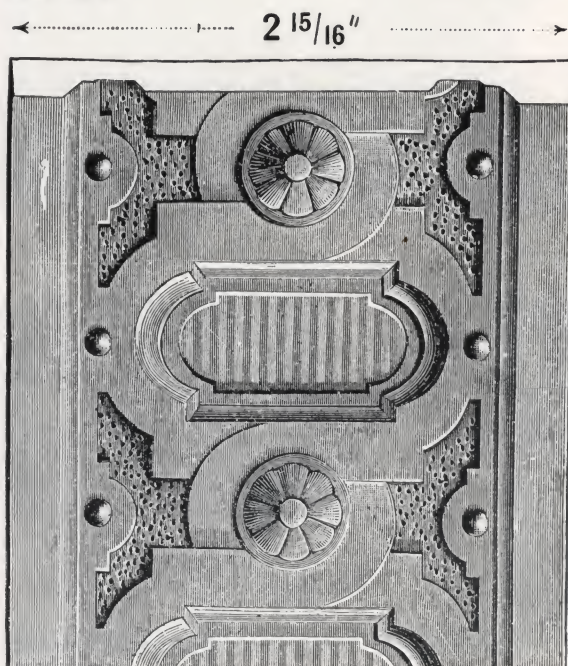
.96 lb.

No. 5111



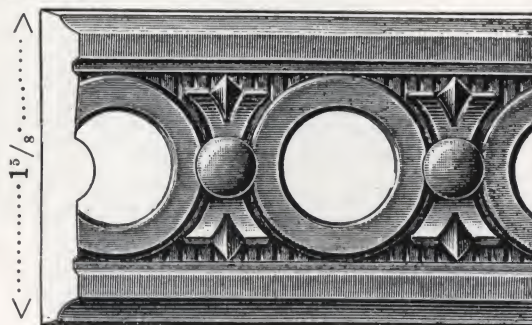
1.88 lb.

No. 5212



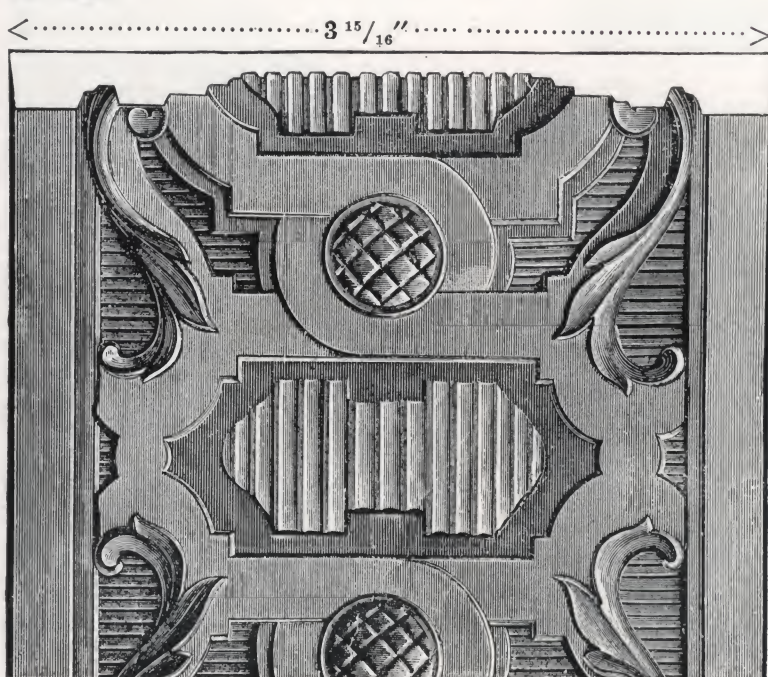
2.31 lb.

No. 5211



.90 lb.

No. 5203



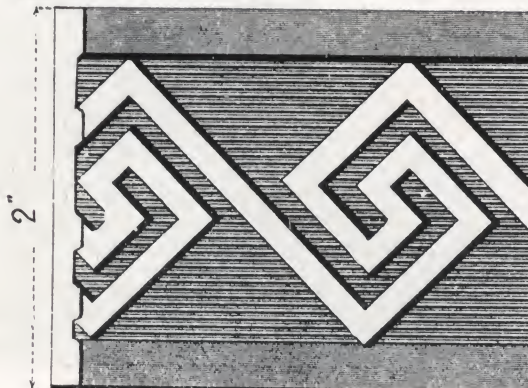
3.07 lb.

No. 5160



.57 lb.

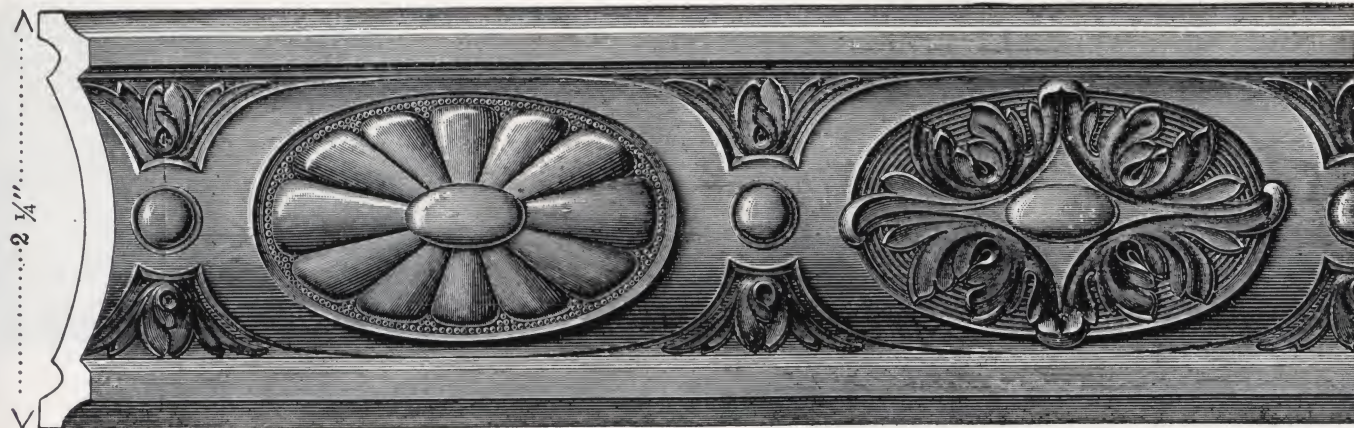
No. 5161



.98 lb.



No. 5252



1.41 lb.

No. 5251



2.20 lb.

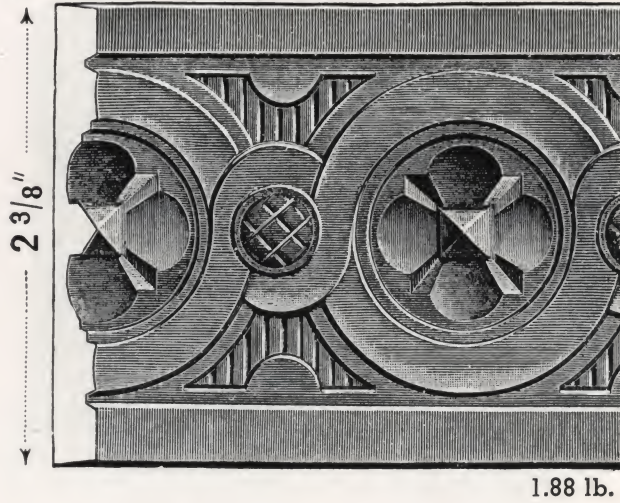
No. 5250



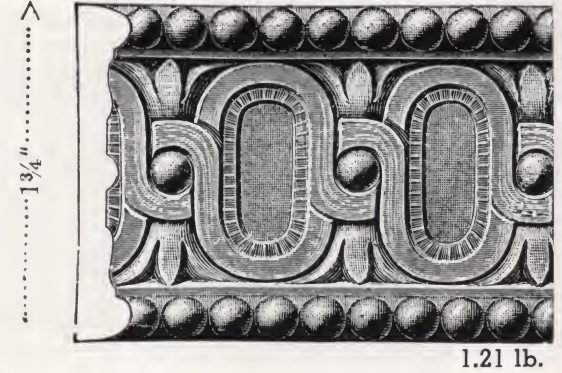
2.23 lb.



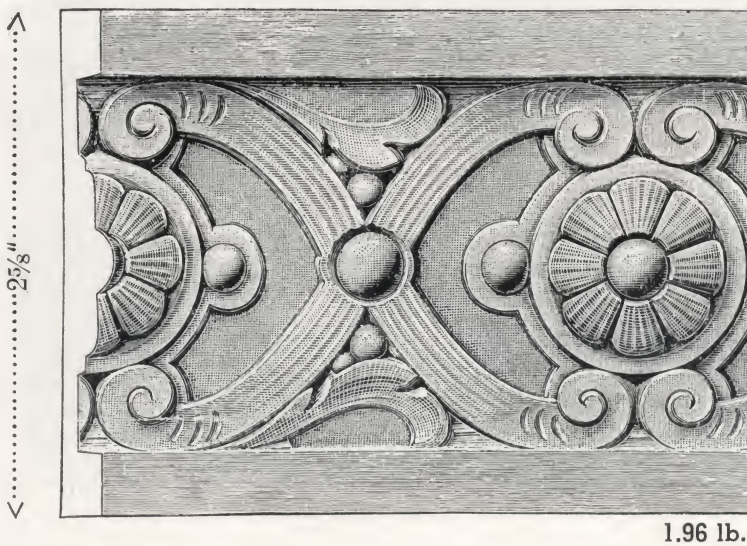
No. 5201



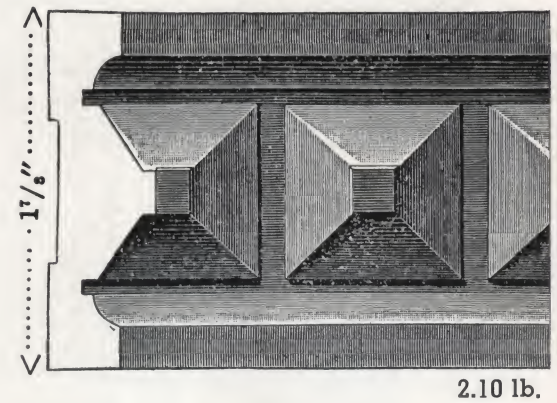
No. 5210



No. 5213



No. 5004



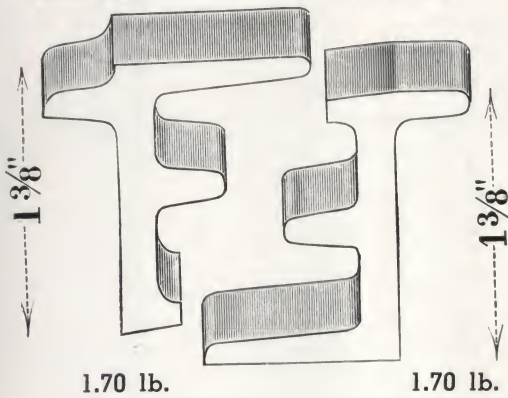
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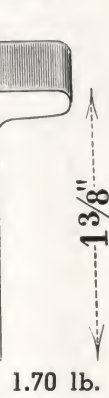


## ROLLED STEEL CASEMENT MOULDINGS

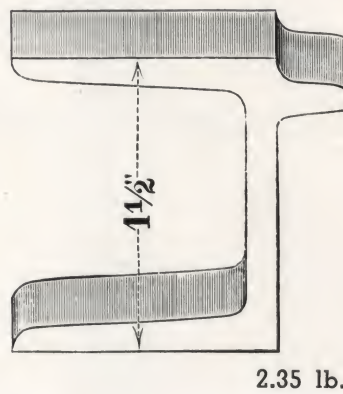
No. 4625



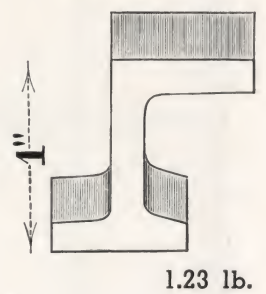
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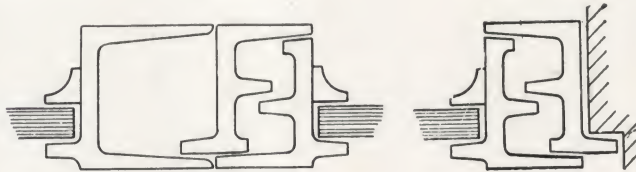
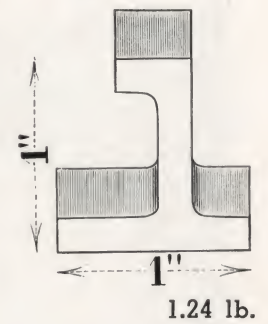
No. 4624



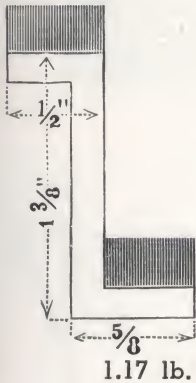
No. 4627



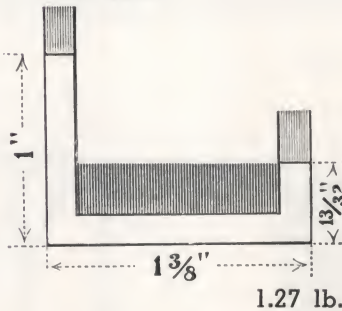
No. 4628



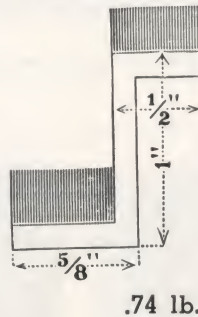
No. 4655



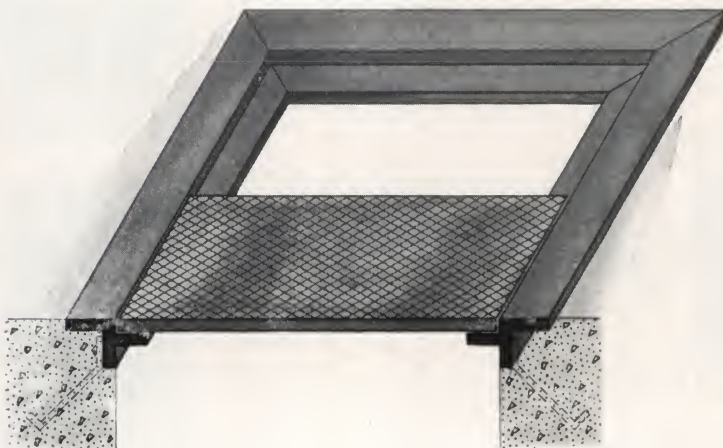
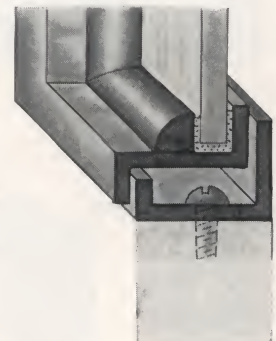
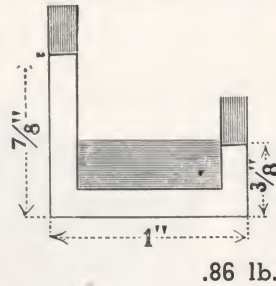
No. 4656



No. 4722

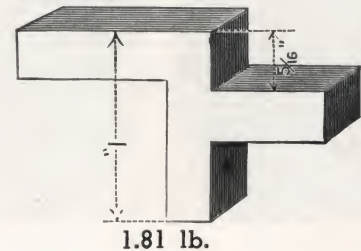


No. 4650



Rolled Steel Moulding  
for Trench Covers

No. 4509





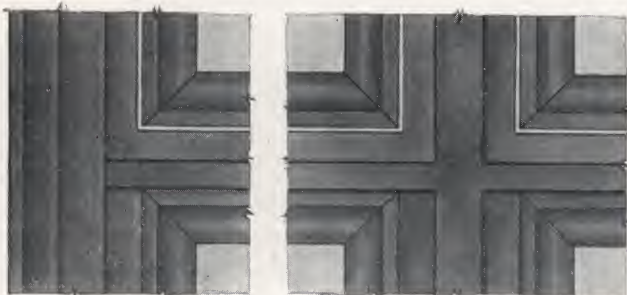
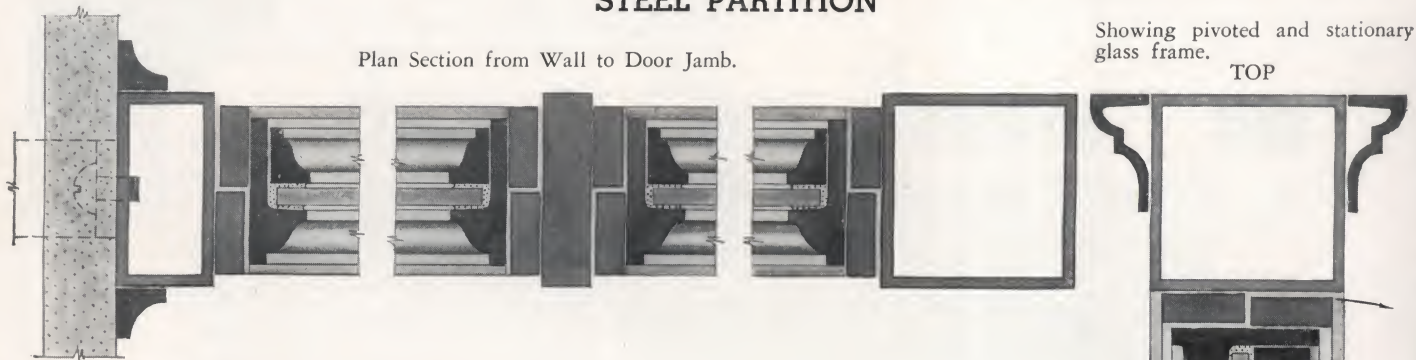


# STEEL PARTITION

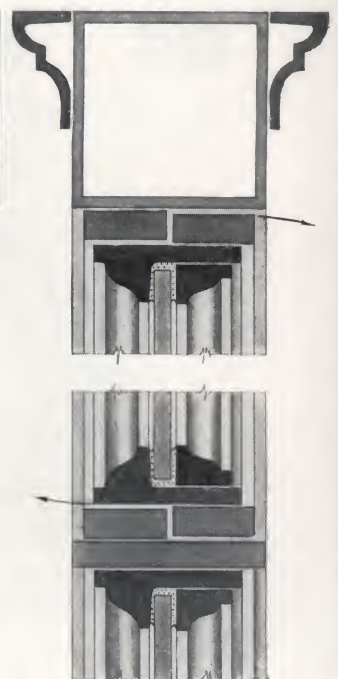
Plan Section from Wall to Door Jamb.

Showing pivoted and stationary glass frame.

TOP



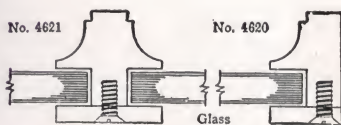
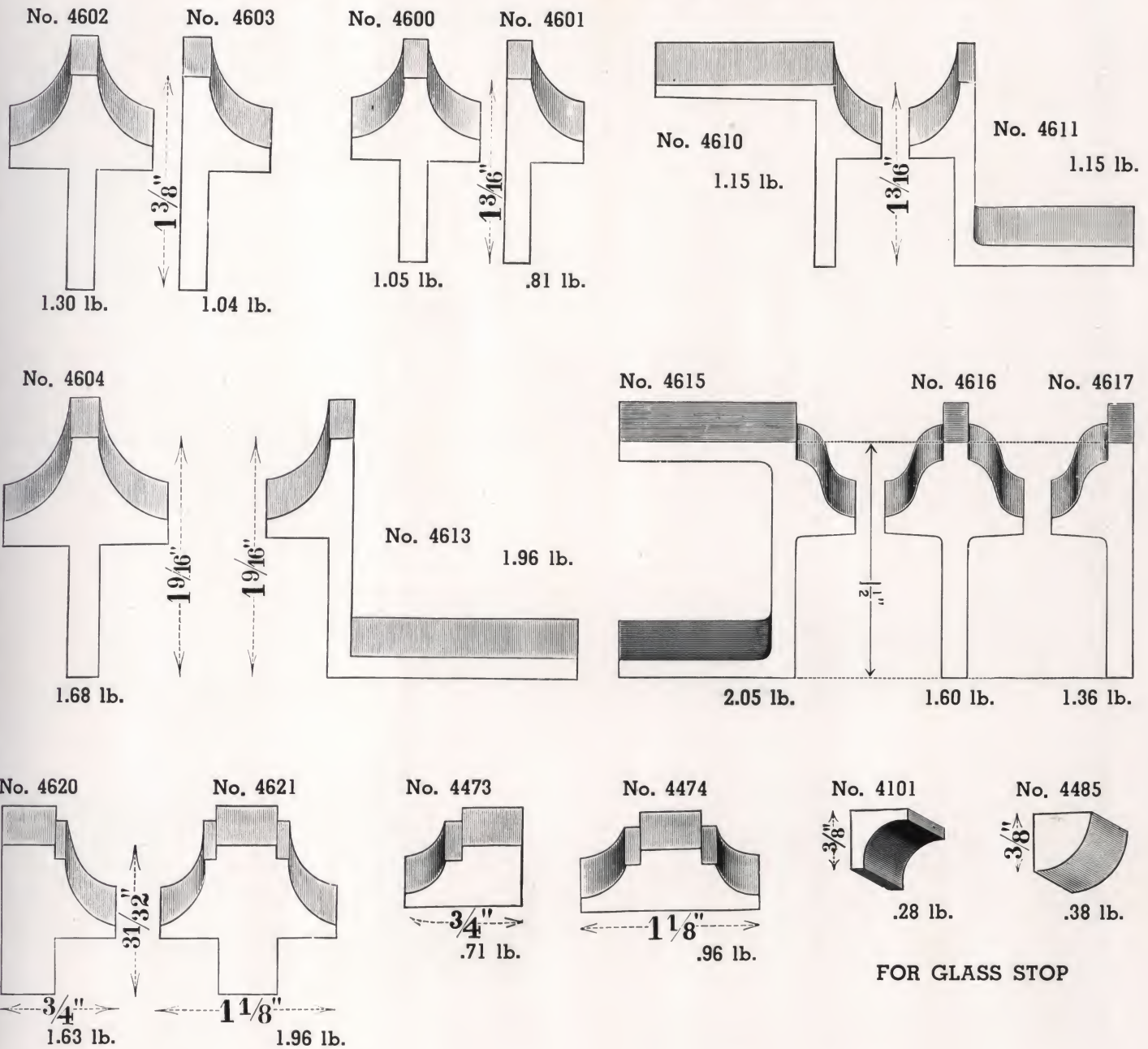
Front view showing intersection and mitres



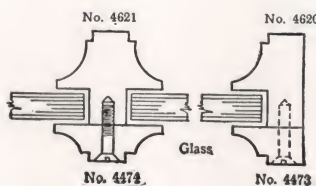
Details shown are ONE-HALF actual size



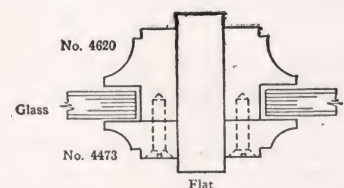
## MOULDINGS FOR GLASS CONSTRUCTIONS



Showing how sections No. 4620 and No. 4621 are used for forming glass frames in vestibule and elevator doors and for partition work.



If Moulding is required both inside and outside use No. 4473 and No. 4474 for glass stops.

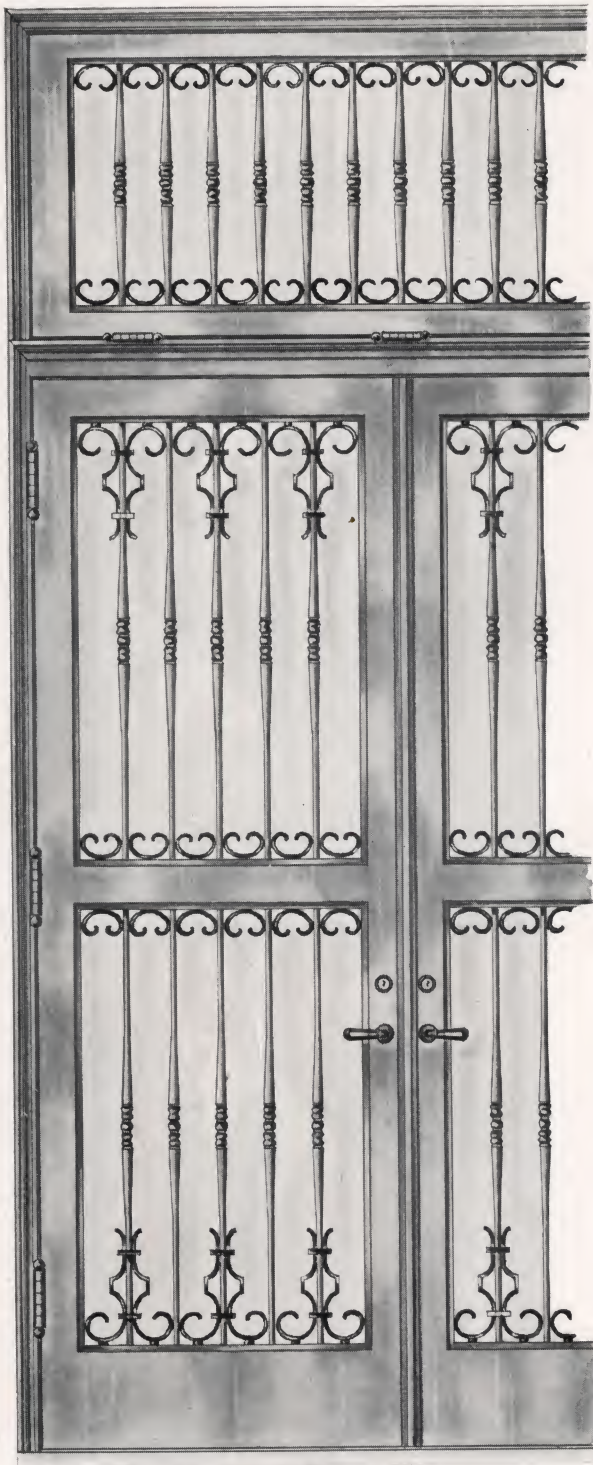


Showing Moulding No. 4620 forming a re-enforced Mullion bar.

A flat bar of any desired size or rectangular tubing may be used in this manner, thereby forming an exceedingly strong construction.



# DOOR

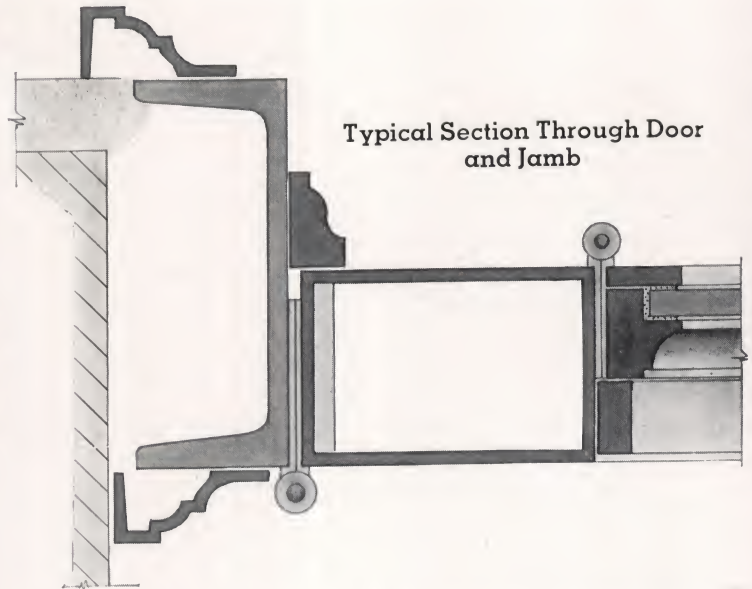


Grille: Hollow Tubular Spindles (or solid Forged Spindles). Scrolls forged from flat bars, spaced from frame by forged round or oval Balls.

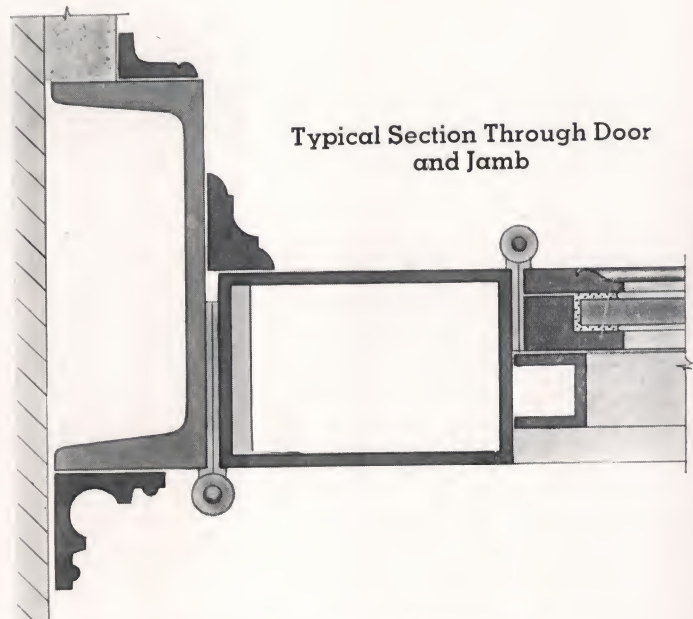
Astragal: Moulding No. 4471.

Door Frame: Cold Drawn Rectangular Steel Tubing 3" x 2" x No. 14 gauge.

Hardware: Ball Bearing Hinges, Loose Pin Butts, Cylinder Lock, Octagon Handles, Flush Bolt (See pages Nos. 112 and 113 for details).



(Above) Channel trimmed both sides with Moulding No. 4151  
Striking bar Moulding No. 4256  
Hinged glass frame Moulding No. 4620



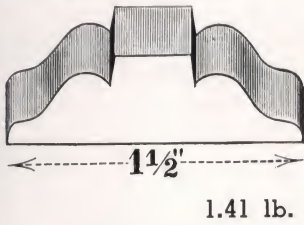
(Above) Channel trimmed with Moulding No. 4495  
Striking bar Moulding No. 4120  
Plaster stop Moulding No. 4121  
Hinged glass frame Mouldings Nos. 4460 and 4450  
Grille frame Channel No. 4732

Details shown are ONE-HALF actual size

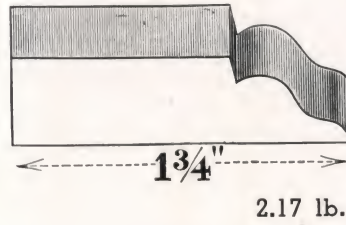
For further details about door construction, see Pages Nos. 68 and 76.



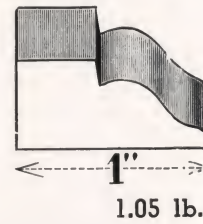
No. 4471



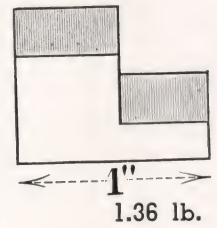
No. 4461



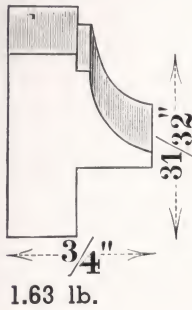
No. 4451



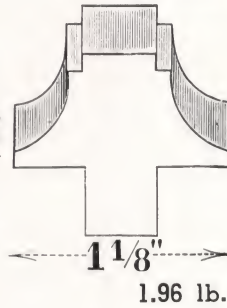
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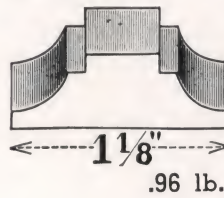
No. 4620



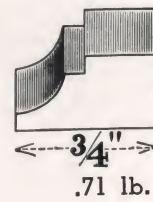
No. 4621



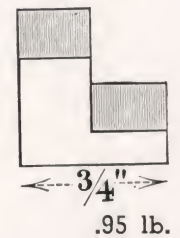
No. 4474



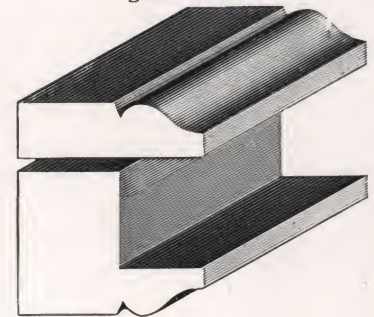
No. 4473



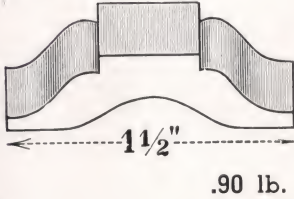
No. 4470



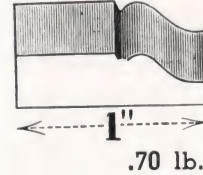
Showing how Mouldings Nos. 4450 and 4453 are used to form a glass frame.



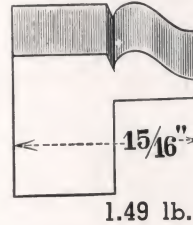
No. 4422



No. 4450

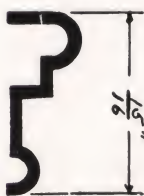


No. 4453



## Cold Drawn Steel Mouldings

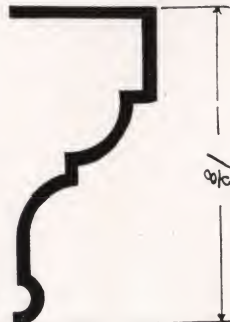
No. 696



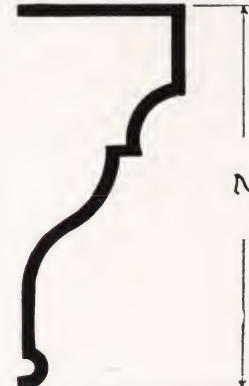
No. 130



No. 152

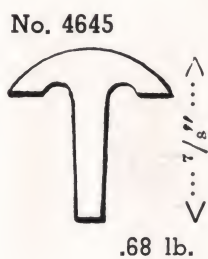
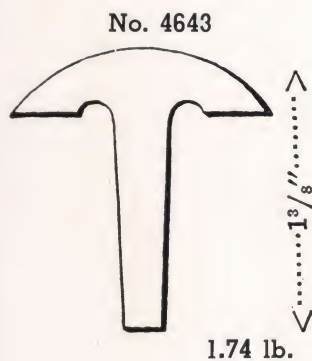
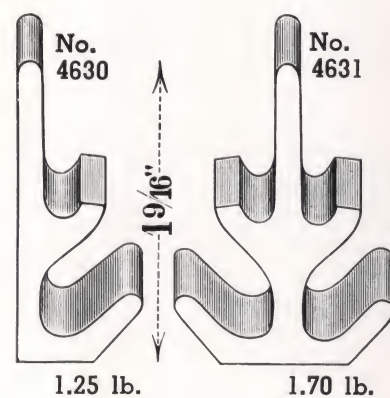
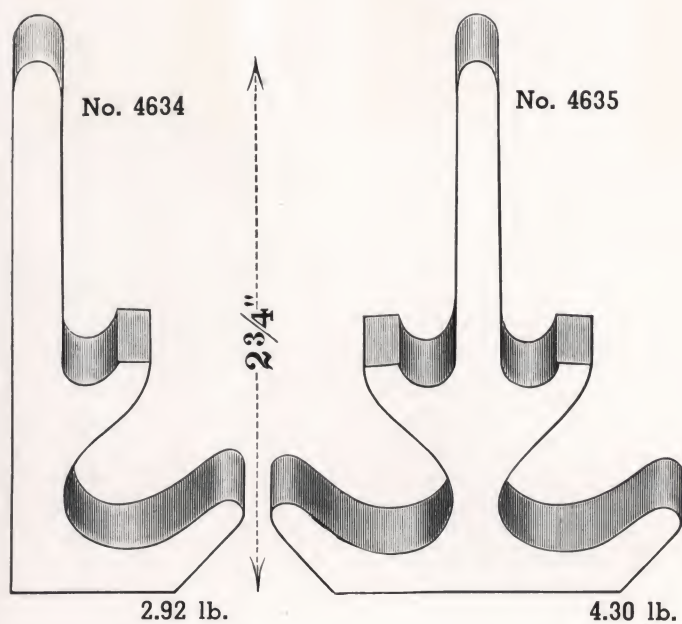
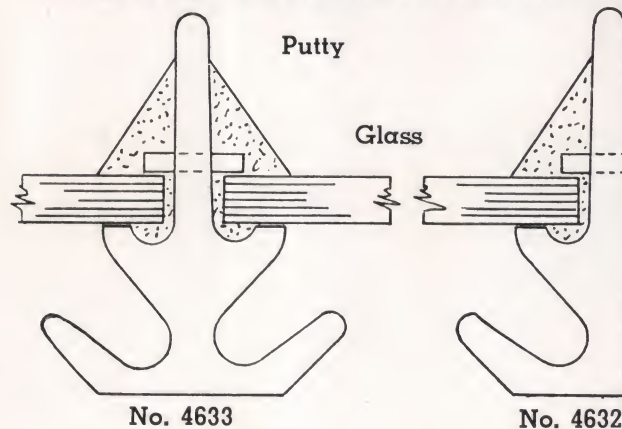
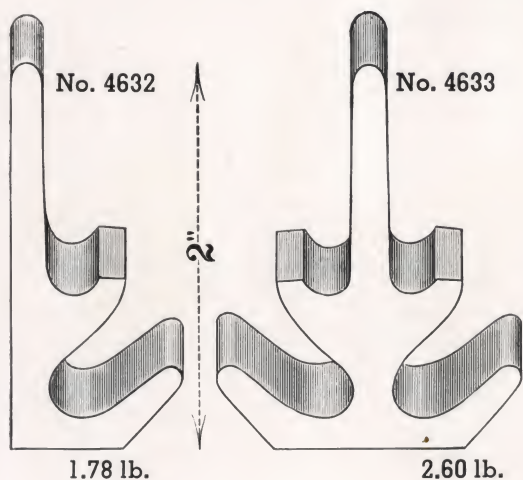
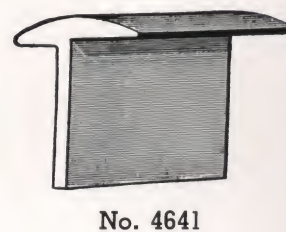
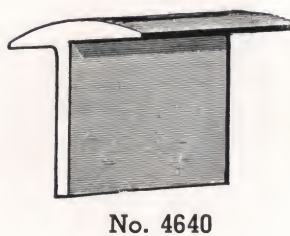


No. 224



THESE MOULDINGS ARE COLD DRAWN FROM THIN STRIP STEEL

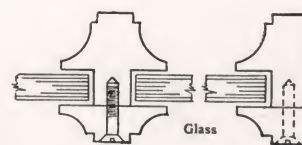
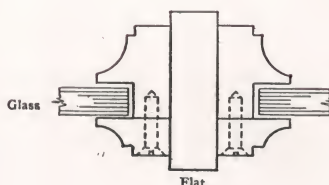
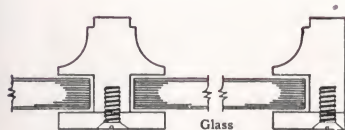
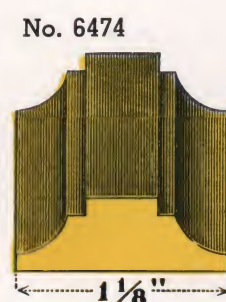
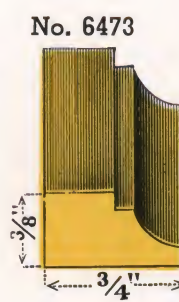
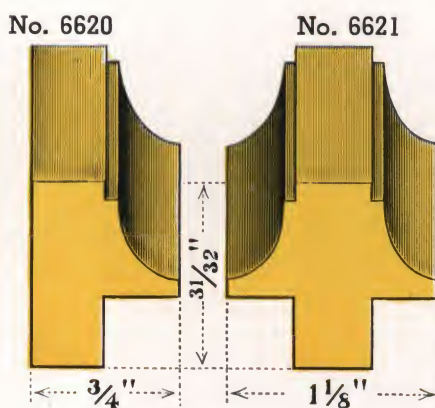
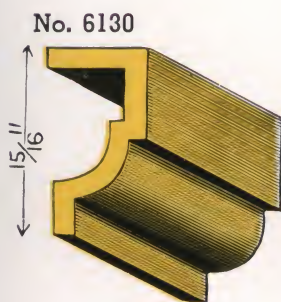
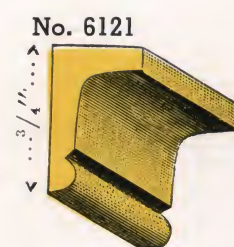
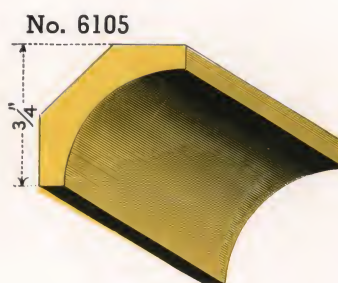
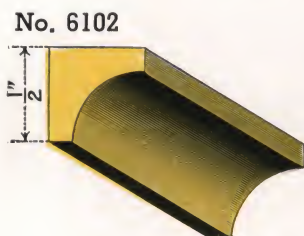
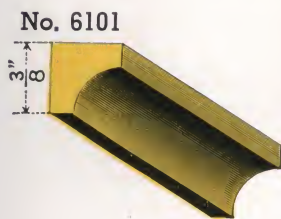


**ROLLED STEEL SKYLIGHT BARS**CONSTRUCTION OF ROLLED STEEL SKYLIGHT,  
USING MOULDINGS No. 4632 and 4633**FOR STRIKING BARS**



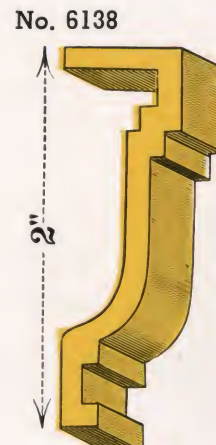
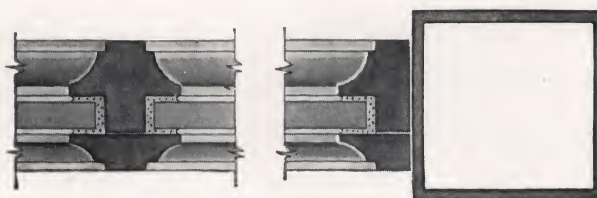
## ARCHITECTURAL BRONZE MOULDINGS

These Shapes can be used for the construction of store fronts, bank screens, wall panels, doors, partitions, fixtures, signs, bucks and other ornamental bronze work. All Architectural Bronze Mouldings and Shapes are uniform in color — furnished in random lengths up to about 20 ft. long or cut to specified lengths.



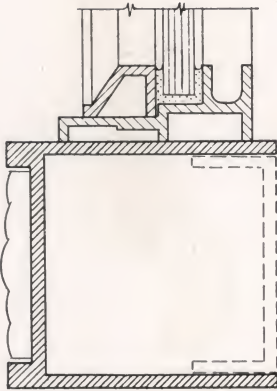
Details showing Mouldings Nos. 6620, 6621, 6473 and 6474 used for forming glass frames in Vestibule or Elevator Doors and for Partition Work.

For Trim and for Glass Stop



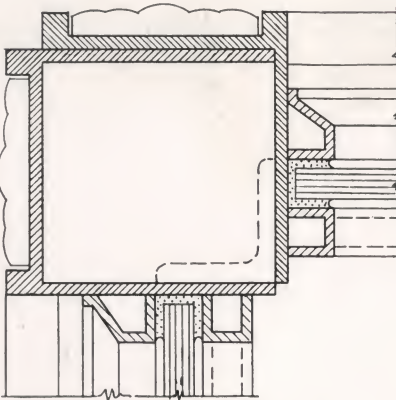


## MULLION, BASE AND CORNER CONSTRUCTIONS



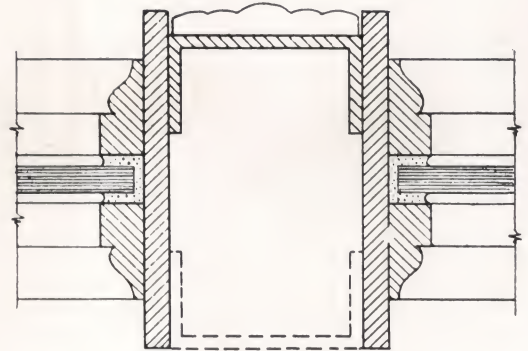
Sill constructed with Aluminum Mouldings Nos. 6942, 6937, 6936.

Channel in back may be recessed if plain panel effect or ornamentation on both sides is desired.



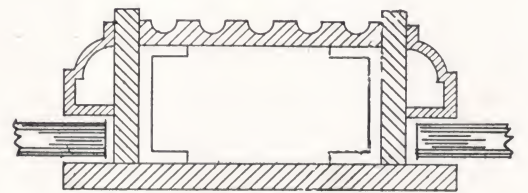
Corner constructed with Aluminum Mouldings Nos. 6942, 6943, 6936, 6956.

Details are shown  
**ONE-HALF**  
actual size



Mullions or transoms of any desired width or depth may be constructed by using Channels (or Angles and Plates). Suitable Mouldings are used for Glass Stops.

The Channel in back of the Mullion may be recessed if plain panel effect or ornamentation on both sides is desired.



Showing similar construction as above with plain flat bar in back used as Glass Stop.

All the constructions shown may be ornamented with **APPLIED DESIGNS** and Rosettes as shown on Pages Nos. 104, 105 and 107 or with Flat Fluted Mouldings as shown on Page No. 98.

Strikingly beautiful effects may be produced by combining steel, bronze and aluminum shapes.

### SEAMLESS DRAWN SQUARE AND RECTANGULAR ALUMINUM TUBING

We can furnish from mill a large variety of sizes and gauges of Seamless Drawn Square and Rectangular Aluminum Tubing with sharp or with rounded corners. Also Round, Oval and odd shapes of Tubing.

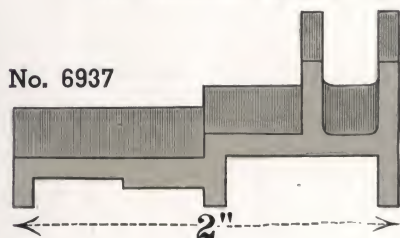
### EXTRUDED ALUMINUM SHAPES

We are prepared to furnish from mill Extruded Aluminum Sections of every shape and alloy. Tools are available at the mill for a large variety of shapes and, in addition, we can make up special dies to customer's specification.

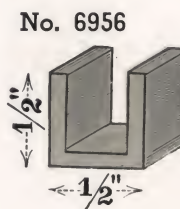
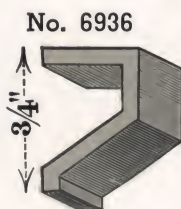


## ALUMINUM MOULDINGS

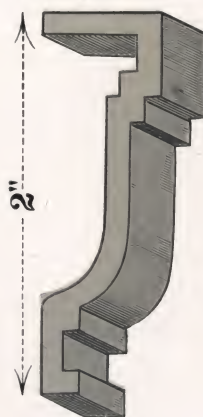
**Store Front Moulding**  
(with condensation gutter)



**For Trim and for Glass Stop**

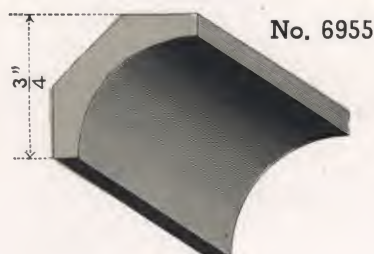
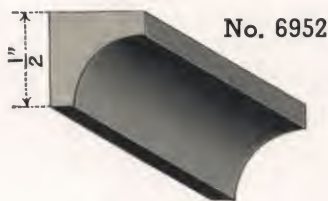


No. 6938



We carry in stock: ALUMINUM MACHINE SCREWS, Countersunk Flat Head  
 $\frac{1}{4}$ " No. 20—1" long       $\frac{1}{4}$ " No. 20—1 $\frac{1}{2}$ " long       $\frac{1}{4}$ " No. 20—1 $\frac{1}{4}$ " long

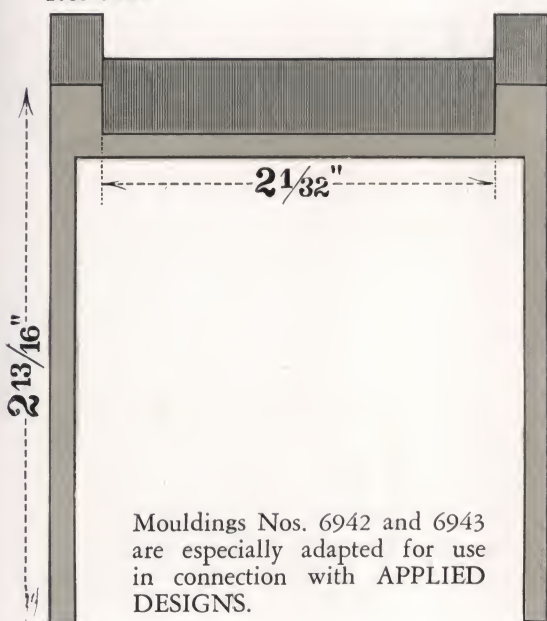
## COVE MOULDINGS AND GLASS STOPS



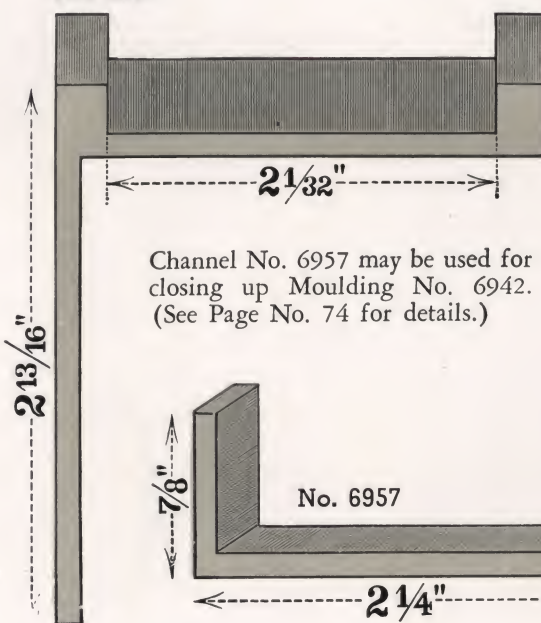
Aluminum Mouldings Nos. 6942, 6943, 6937, 6936 and 6956 are especially suited for construction of Store Fronts, Bank Screens and Partitions

Typical construction details are shown on Page No. 74

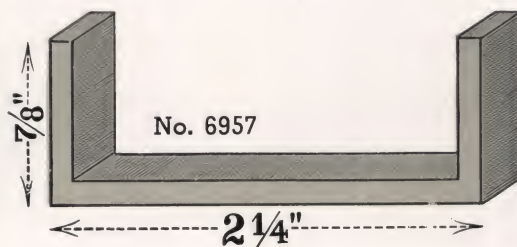
No. 6942



No. 6943



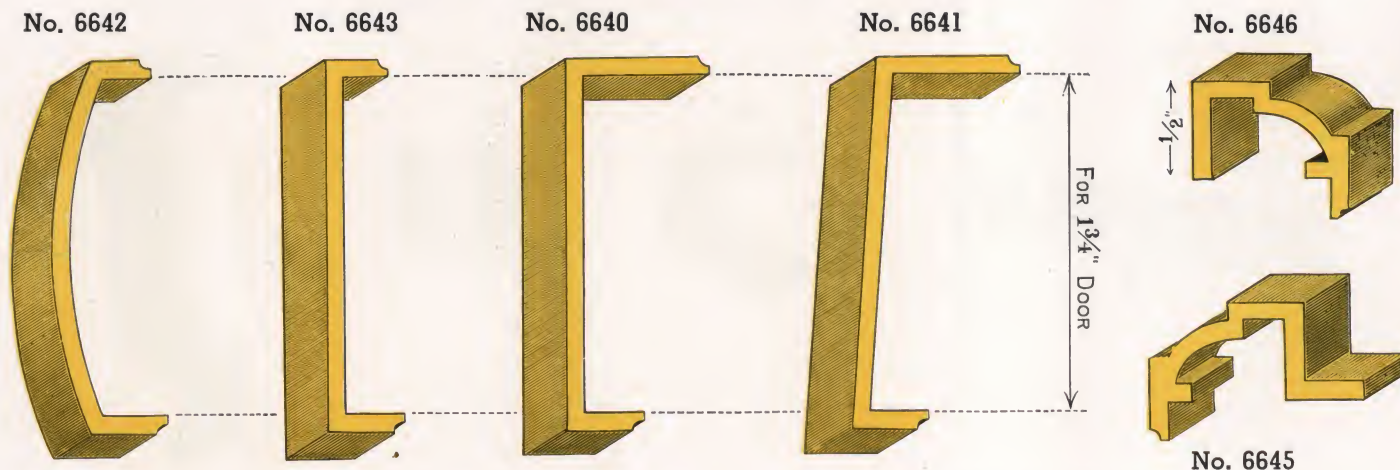
Channel No. 6957 may be used for closing up Moulding No. 6942. (See Page No. 74 for details.)



Mouldings Nos. 6942 and 6943 are especially adapted for use in connection with APPLIED DESIGNS.

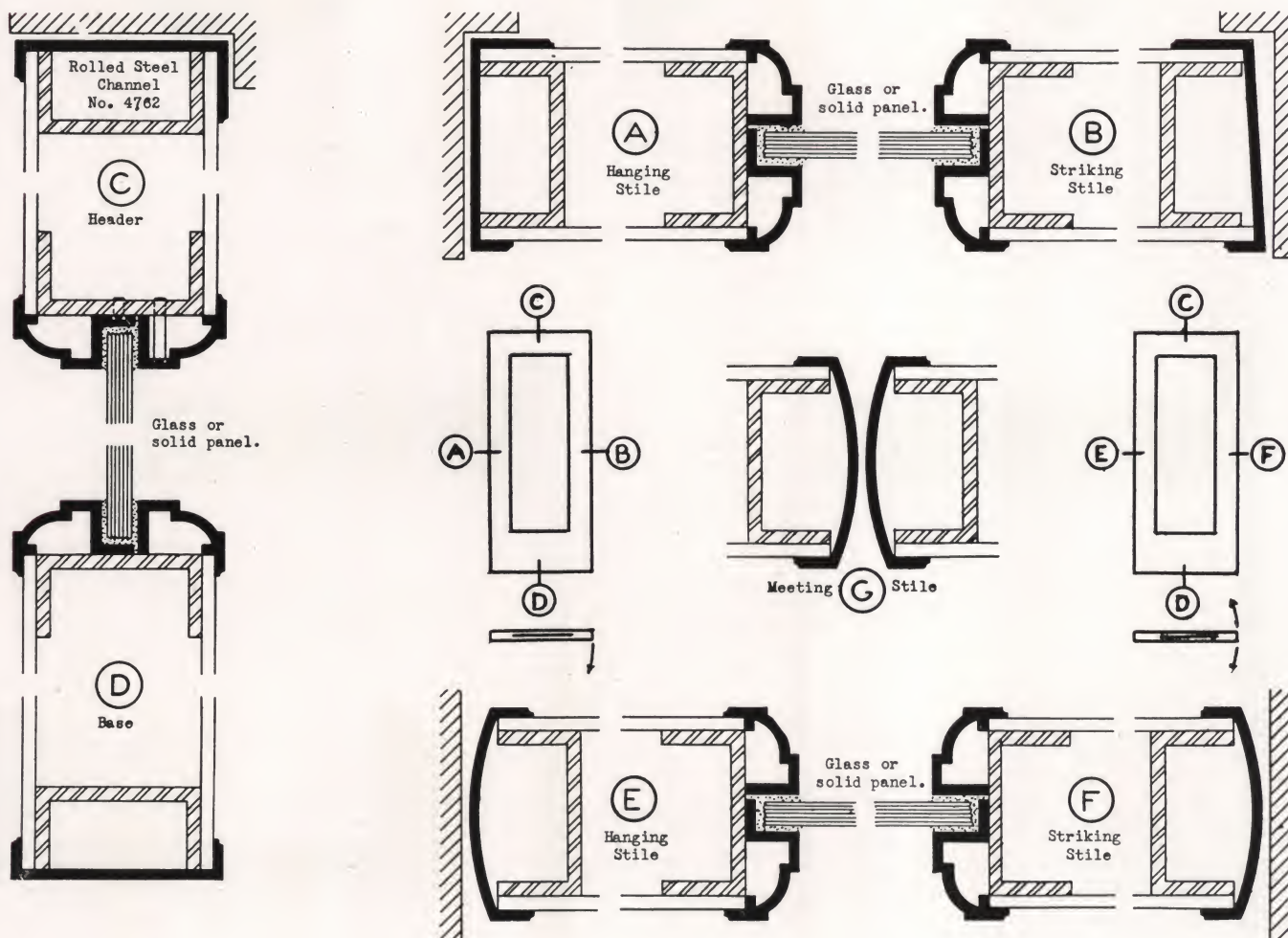


## ARCHITECTURAL BRONZE DOOR EDGINGS



Showing construction of doors with glass or with solid panels by use of Rolled Steel Channel No. 4762 for inner framing and Architectural Bronze Edgings and Glass Frame Mouldings. Doors constructed in this manner may have stiles of any width. Strikingly beautiful effects may be produced by using different metals or plastics for stile facing and by combining contrasting colors with Architectural Bronze Door Edgings.

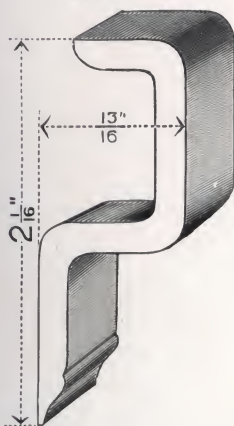
Architectural Bronze Door Edgings may be used in a similar manner for  $1\frac{3}{4}$ " thick tubular doors, kalamein or wood doors.



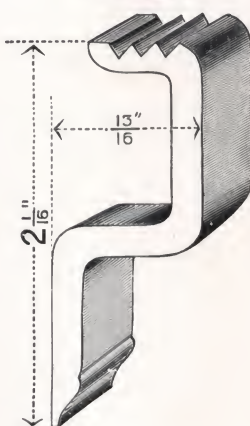


## NOSINGS FOR STAIRS AND PLATFORMS

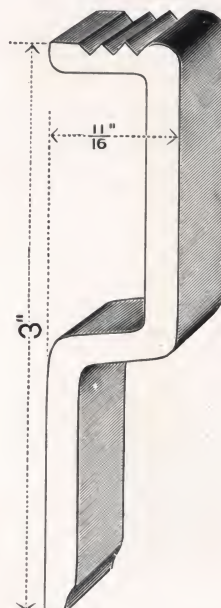
No. 4230



No. 4231



No. 4232

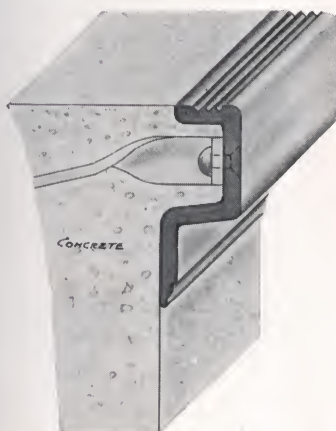


No. 6632

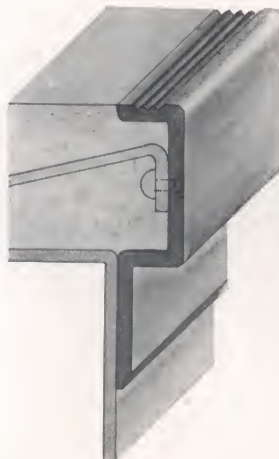
Architectural Bronze



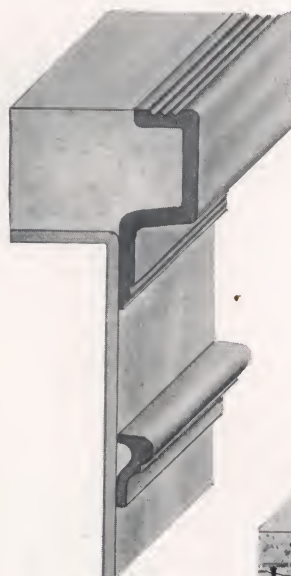
Showing NOSINGS used for edge protection of concrete or composition steps and platforms



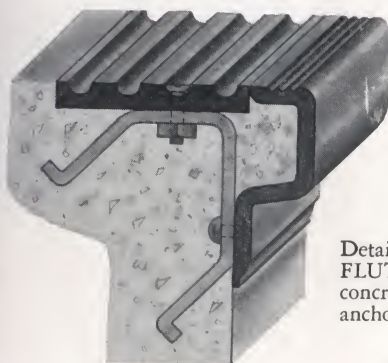
Showing NOSING applied to concrete riser and step (with anchor).



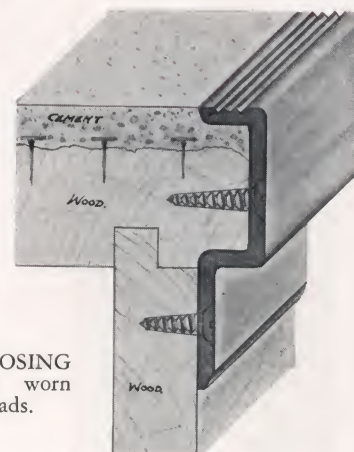
Showing NOSING applied to steel riser and steel subread (with anchor).



Showing NOSING applied to panelled steel riser and steel subread.



Detail of NOSING and FLAT FLUTED SECTION applied to concrete riser and tread (with anchor).



Showing NOSING applied to worn wooden treads.



## HOT ROLLED GALVANIZED STEEL CURB BARS

FOR THE PROTECTION OF STAIR TREAD AND PLATFORM EDGES,  
CURBS, COLUMN CORNERS, ETC., ETC.

THE NOSING AND ANCHORS CONSIST OF ONE PIECE

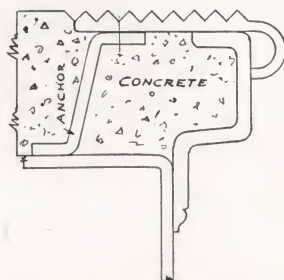
Showing Method of Employment on Curb  
or Stair Edge. Note firm hold of anchor  
in concrete.

These mouldings are rolled from  
soft steel and can be bent easily.

Curb Bars are shown  
ONE-QUARTER actual  
size.

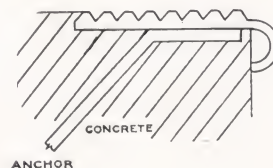
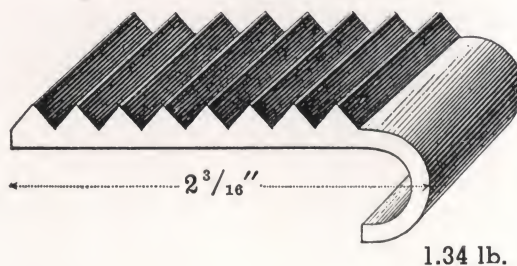
SECTION No. 4246 is a galvanized Steel Angle nosing with non-slipping safety tread. The forked anchors are punched and sheared from the top flange of the  $1\frac{1}{4}" \times 1\frac{1}{4}" \times \frac{3}{16}"$  galvanized angle and extend  $2\frac{3}{4}"$  into the concrete, at a downward angle.

SECTION No. 4245 is a galvanized Steel Tee Moulding, rolled with a 1" Radius. The anchors are sheared and bent away from the center web, giving a  $2\frac{3}{4}"$  anchorage into the concrete. These anchors are slightly staggered, which distributes the stress and prevents splitting of the concrete and permits a ready flow of same between the anchors.



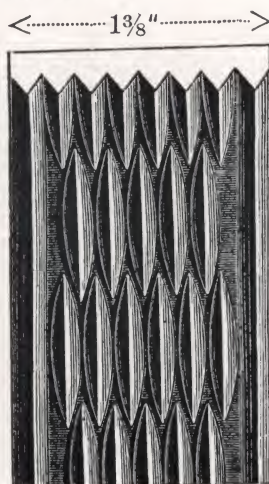
Moulding No. 4508 with anchor  
and Nosing No. 4230 used on steel  
risers.

### NON-SLIPPING EDGE NOSINGS No. 4508



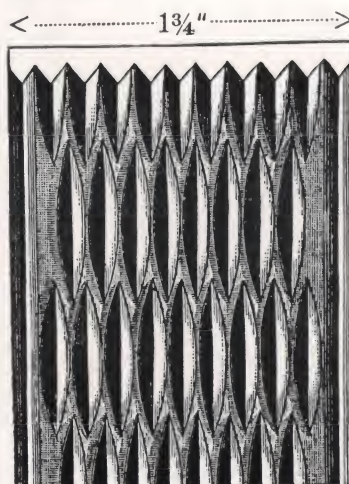
Moulding No. 4508 with anchor  
for protection of concrete edges.

No. 4497



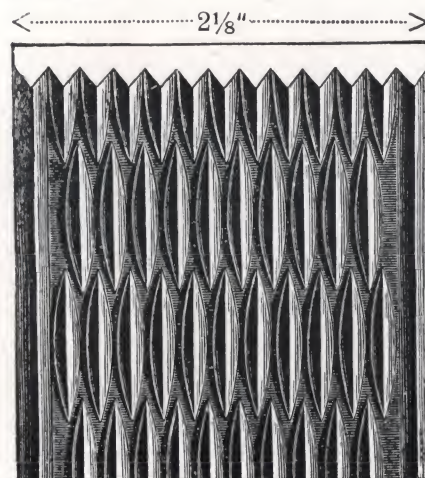
.54 lb.

No. 4498



.81 lb.

No. 4499



.99 lb.



## SADDLES

**J**ULIUS BLUM Rolled Steel, Architectural Bronze and Aluminum Shapes shown on the following pages provide a selection of sections for the construction of Thresholds and Elevator Saddles of all types.

These sections are of superior quality, free from imperfections, straight and true in alignment.

Rolled Steel, Architectural Bronze and Aluminum Sections are carried in stock in long bars and can also be furnished cut to specified lengths.

It is impossible to show in this catalog the great variety of Door Sills and Elevator Saddles which may be assembled at low cost by the use of our Shapes.

No elaborate details, patterns, machining or cleaning are necessary and it is possible to obtain without waiting a single saddle or a large quantity for any typical form of construction.

Conditions which can be met through the use of these sections include:

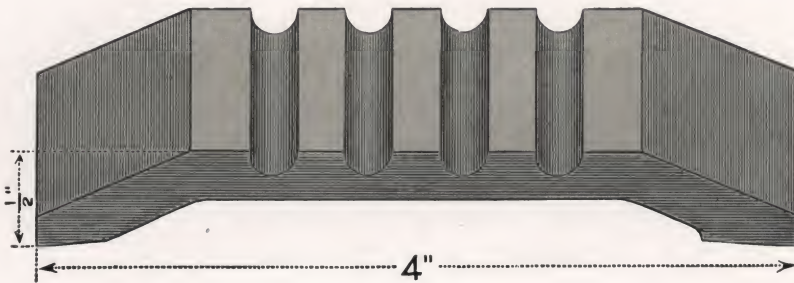
*Any Length, Width or Depth—Single Groove—Double Groove—Without Groove—Any Door Thickness—Center Opening—Side Opening—Single, Double or Hinged Doors—Between Jamb—Behind Jamb—With or Without Cut-outs for Floor Hinges, Mullions or Door Bucks—Weatherstrip—Roof Door Saddles, etc.*

Julius Blum & Co., Inc. will be pleased to submit details or sketches as to how to build up Thresholds or Elevator Saddles of special character.



## ARCHITECTURAL ALUMINUM DOOR SADDLES

No. 6923 4" wide x  $\frac{1}{2}$ " high

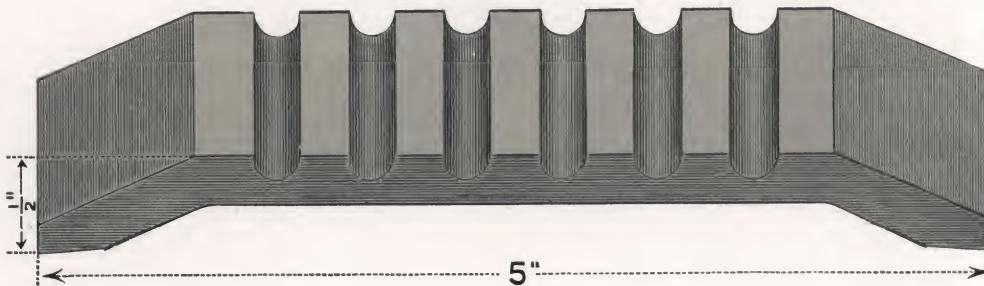


**Aluminum Door Saddles** are made from a tough, heat treated, wear resisting Aluminum Alloy. Surface is free from imperfections. A highly polished finish can be produced by buffing.

ALUMINUM WOOD SCREWS  
CARRIED IN STOCK

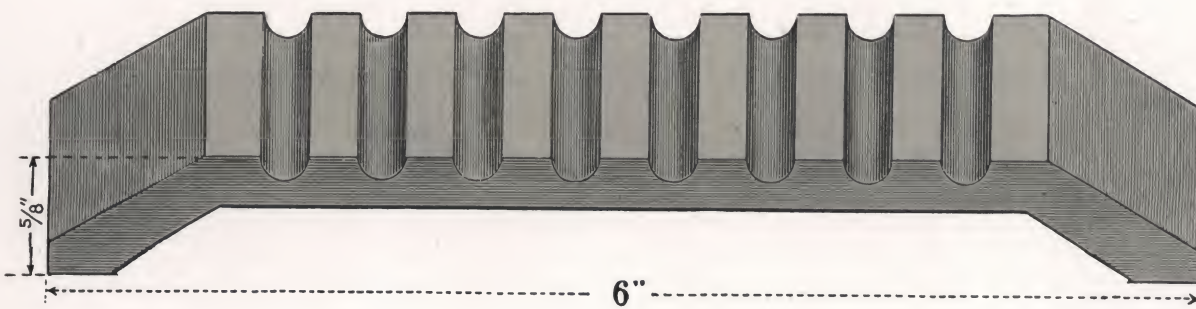
$1\frac{1}{2}$ " Long x No. 16 Flat Head  
2" Long x No. 16 Flat Head

No. 6922 5" wide x  $\frac{1}{2}$ " high

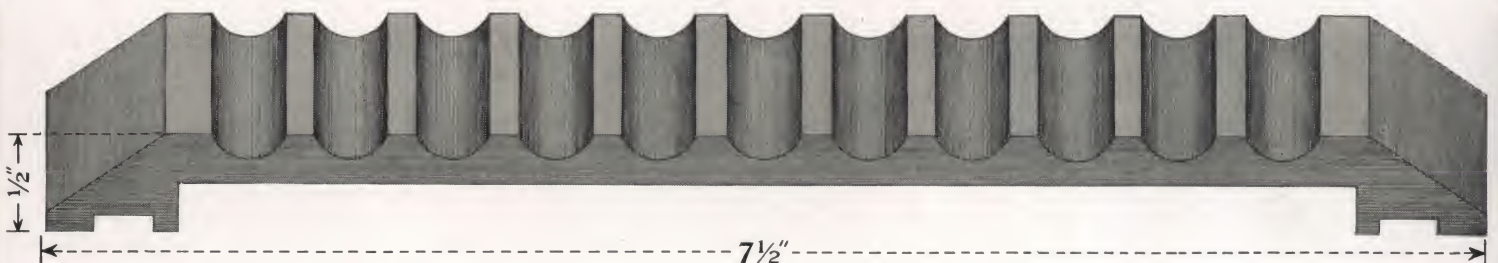


Carried in stock in long straight bars. Can also be cut to specified lengths.

No. 6920 6" wide x  $\frac{5}{8}$ " high



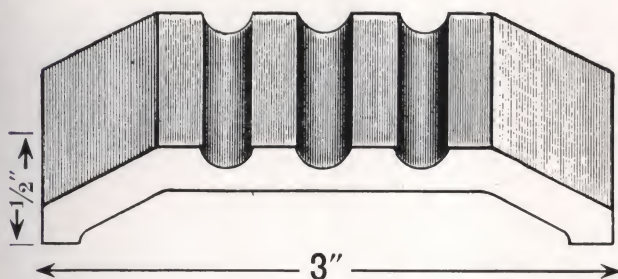
No. 6919  $7\frac{1}{2}$ " wide x  $\frac{1}{2}$ " high Sufficiently Wide to Cut-Out for Floor Hinge Boxes



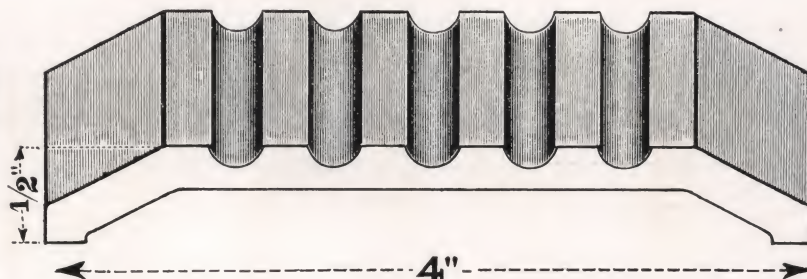


## ROLLED STEEL DOOR SADDLES

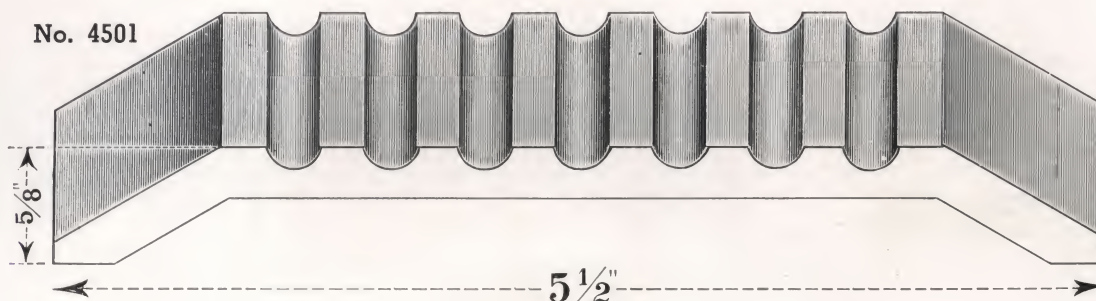
No. 4504



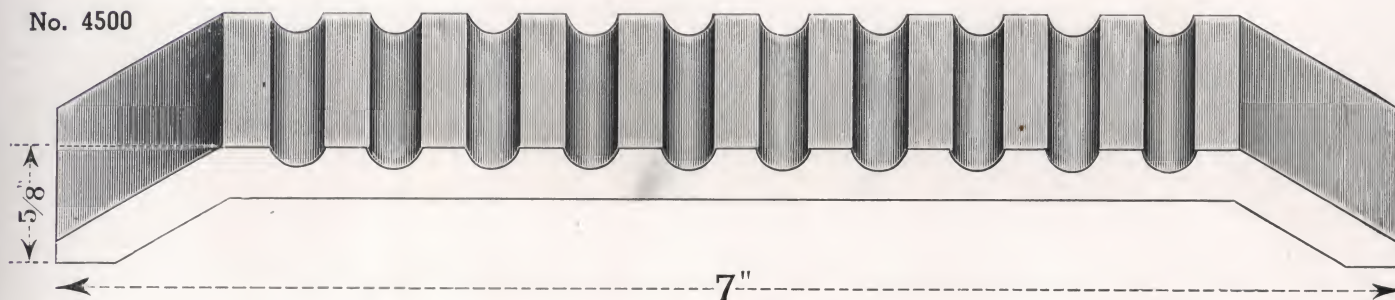
No. 4503



No. 4501



No. 4500



ROLLED STEEL DOOR SADDLES are stronger, cleaner in appearance and cheaper than Cast Iron Saddles.

ROLLED STEEL DOOR SADDLES may be properly centered between jambs and doors may be hung without the necessity of changing the position of the saddle.

ROLLED STEEL DOOR SADDLES may be fitted with ease and at low cost into jamb or around mullions.

CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE CUT TO SPECIFIED LENGTH

NO BREAKAGE  
NO PATTERNS

NO IMPERFECTIONS  
LOW IN COST

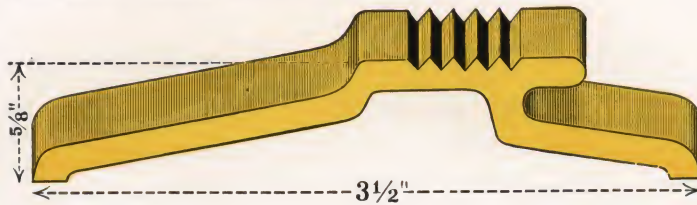
NO WAITING

NO STRAIGHTENING  
NO ERRORS

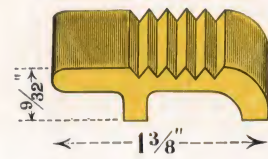


## WEATHERSTRIP DOOR SILLS

No. 4590 ARCHITECTURAL BRONZE



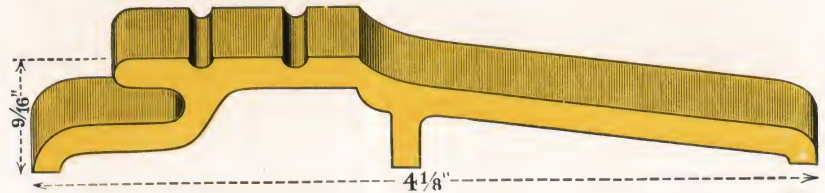
No. 4598 ARCHITECTURAL BRONZE



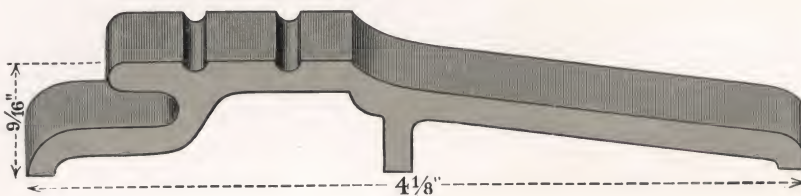
May be used alone or with other saddle sections.

**Brass Hook Strip** can be furnished from stock to be used with sills No. 4590, No. 4591, No. 4593, No. 4598 and No. 6991.

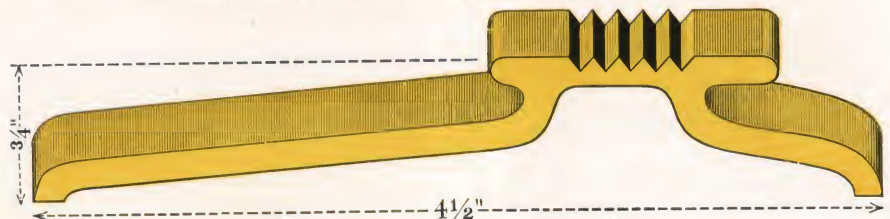
No. 4591 ARCHITECTURAL BRONZE



No. 6991 ARCHITECTURAL ALUMINUM

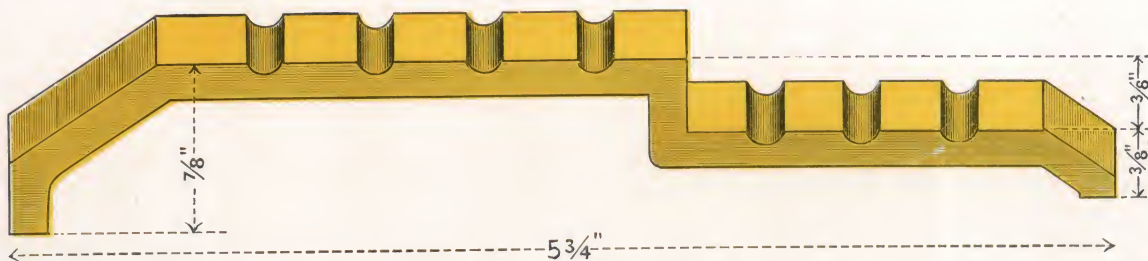


No. 4593 ARCHITECTURAL BRONZE



No. 4597 ROOF DOOR SADDLE

ARCHITECTURAL BRONZE



CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE CUT TO SPECIFIED LENGTH

NO BREAKAGE  
NO PATTERNS

NO IMPERFECTIONS  
LOW IN COST

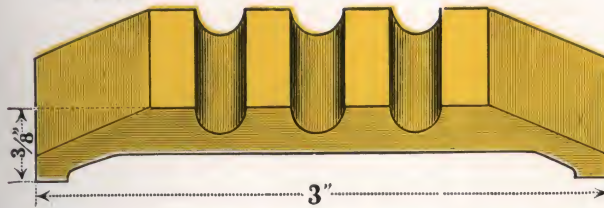
NO WAITING

NO STRAIGHTENING  
NO ERRORS

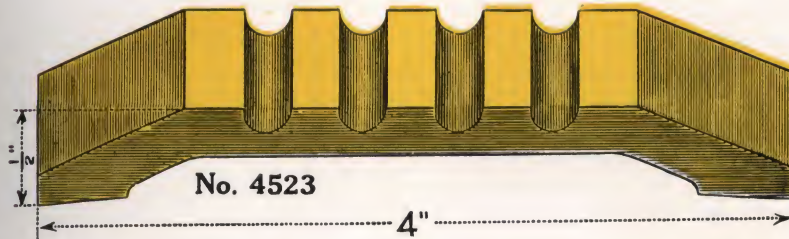
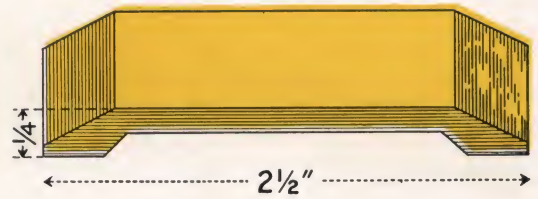


## ARCHITECTURAL BRONZE DOOR SADDLES

No. 4524

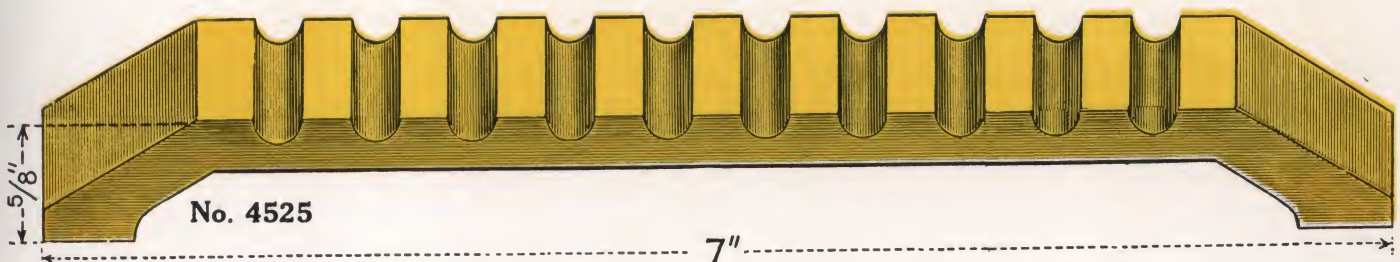
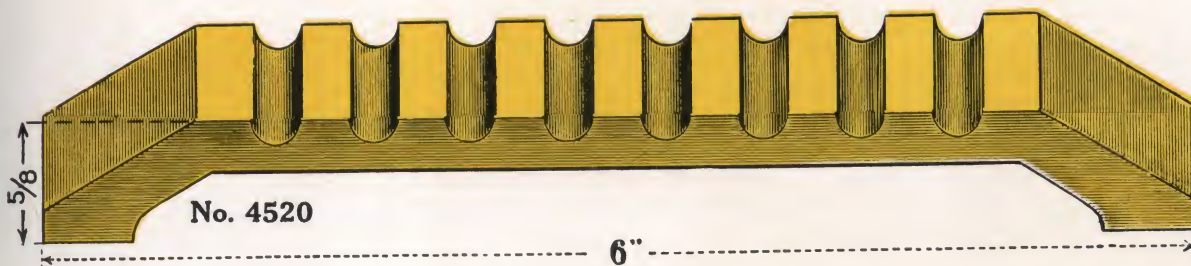
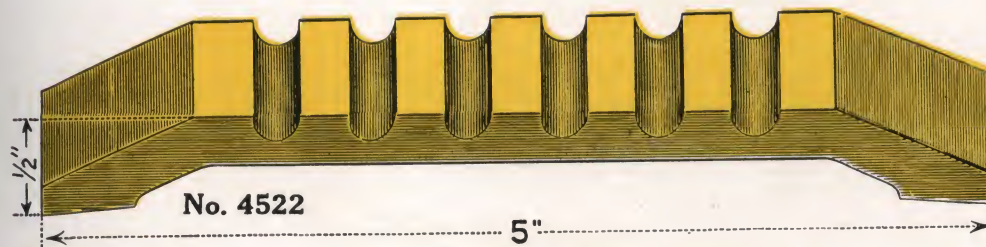
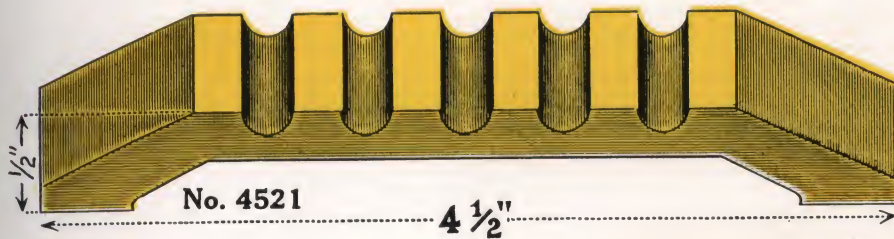


No. 4510



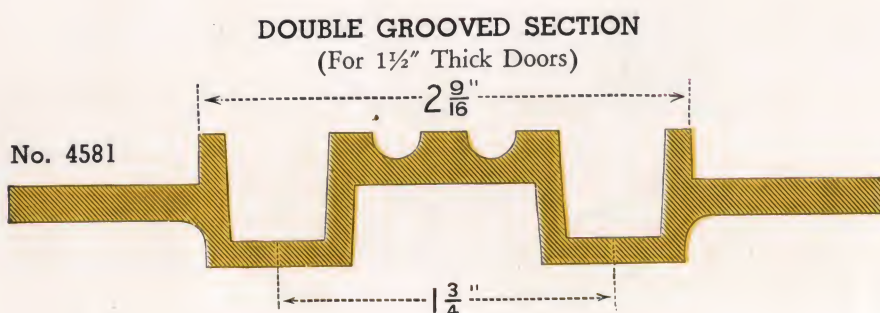
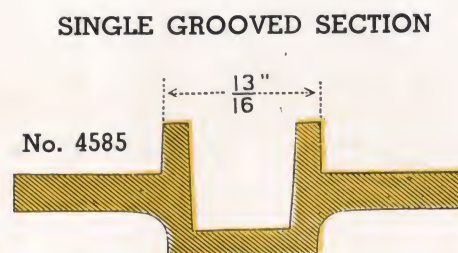
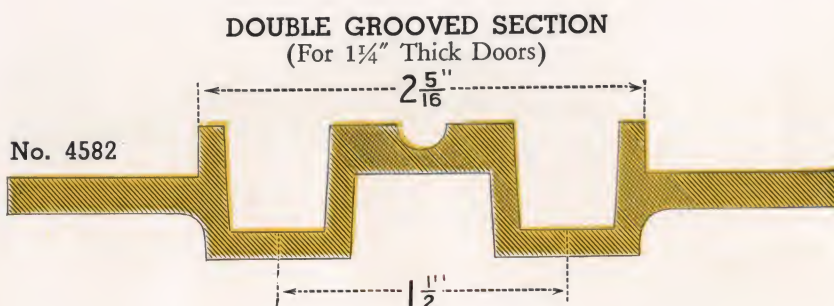
### EXTRA WIDE SADDLES

Bronze Saddles from 7" to 10" wide may be constructed by using sections No. 4511, No. 4512 and No. 4513 shown on page No. 91. For wider Saddles use Flat Fluted Sections and Bevel End Pieces shown on page No. 85.

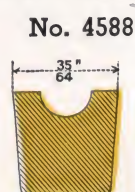




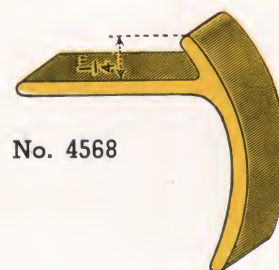
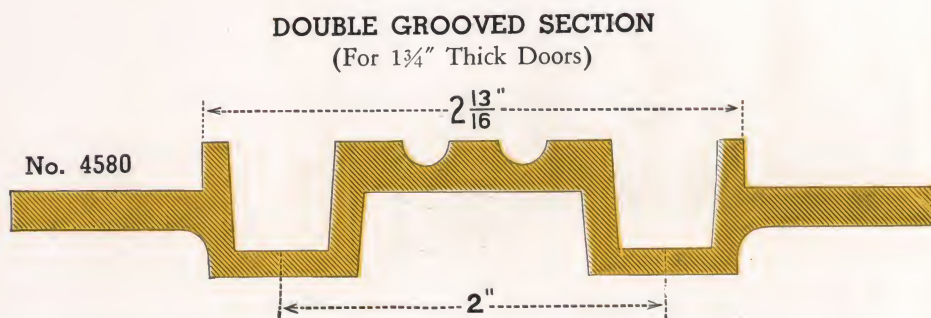
## Architectural Bronze Sections for Elevator and Door Saddles



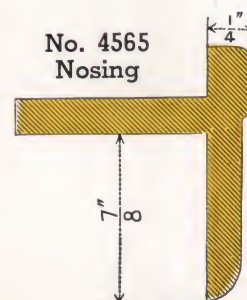
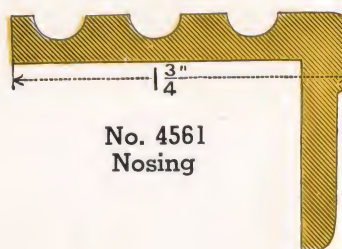
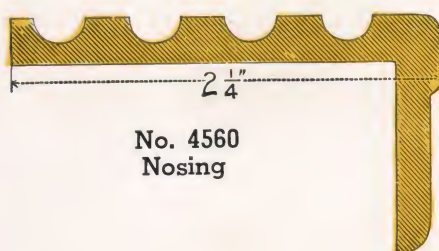
**INSERT SECTION**



For filling up part of groove and for door stop.



If doors are slightly thicker or thinner the guide pins in the bottom of the door are set a trifle off center. As a rule,  $\frac{1}{4}$ " clearance is allowed between doors.



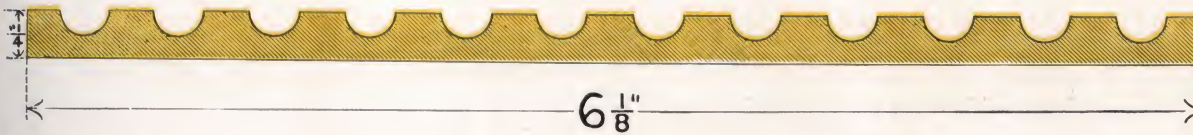
**BRONZE RIVETS FOR ASSEMBLING SADDLES**

$\frac{3}{16}$ " x $\frac{9}{16}$ "	Round Head
$\frac{3}{16}$ " x 1"	" "
$\frac{1}{4}$ " x $1\frac{1}{8}$ "	" "

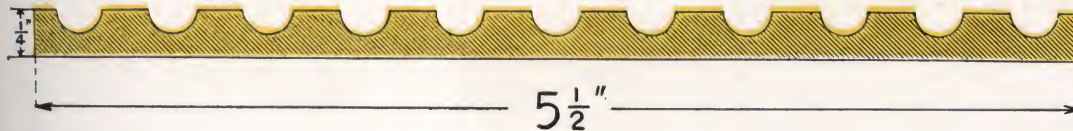


## Architectural Bronze Sections for Door and Elevator Saddles

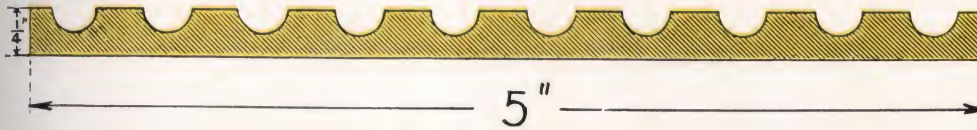
No. 4559



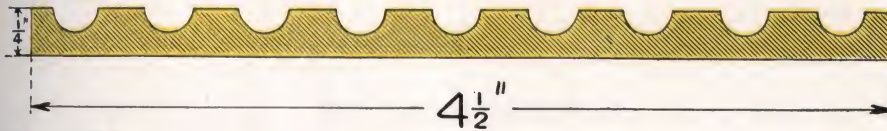
No. 4550



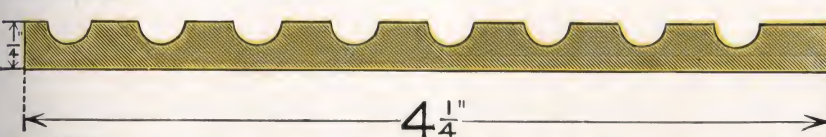
No. 4551



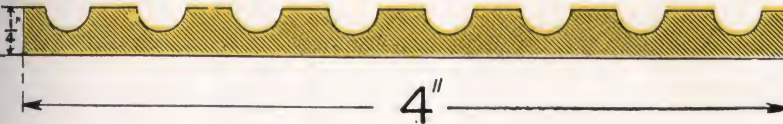
No. 4552



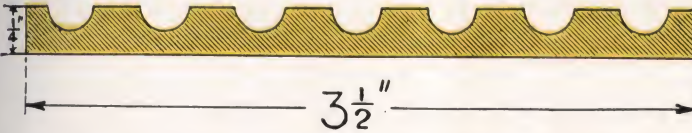
No. 4553Q



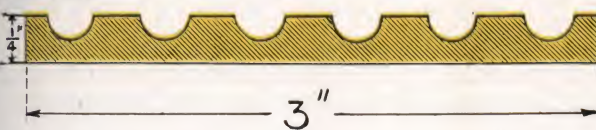
No. 4553



No. 4554



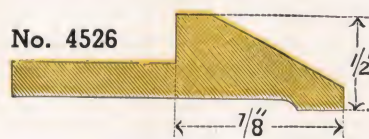
No. 4555



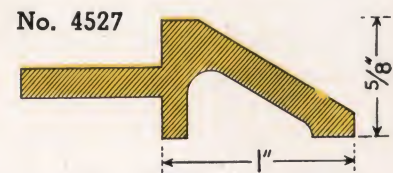
No. 4528



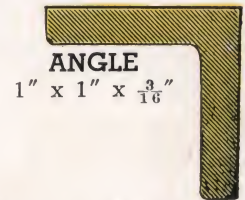
No. 4526



No. 4527



1/4" half round for filling in grooves.

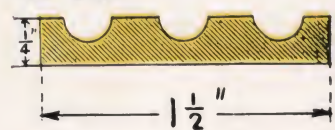


PLAIN SECTIONS FOR PANELS

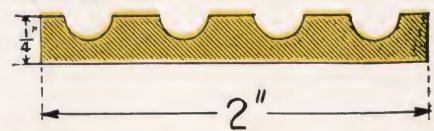


5/8" x 1/4"  
3/4" x 1/4"  
1" x 1/4"  
2" x 1/4"  
3" x 1/4"

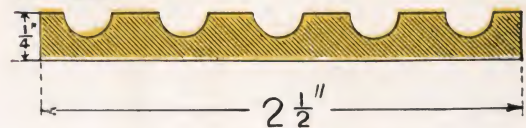
No. 4558



No. 4557



No. 4556



CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE CUT TO SPECIFIED LENGTH

NO BREAKAGE  
NO PATTERNS

NO IMPERFECTIONS  
LOW IN COST

NO WAITING

NO STRAIGHTENING  
NO ERRORS



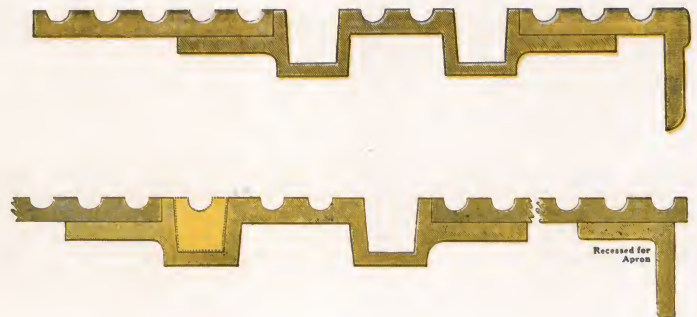
## Typical Construction of Architectural Bronze Elevator Saddles

### CONSTRUCTION OF BRONZE ELEVATOR SADDLE WITH DOUBLE GROOVES

DOUBLE GROOVE ELEVATOR SADDLES (or for triple doors), opening right or left may be constructed by using Double Groove Sections Nos. 4580, 4581 or 4582 in conjunction with fluted flats of suitable widths. As a rule, double groove elevator saddles do not extend behind the partition.

The thickness of the doors governs the type of double groove section to be used. A space of  $\frac{3}{4}$ " is generally allowed between doors.

As a rule, the saddle should be flush on the hall side with the jamb or finish within that line. If saddle projects beyond this line it is cut out to follow the lines of the jamb.

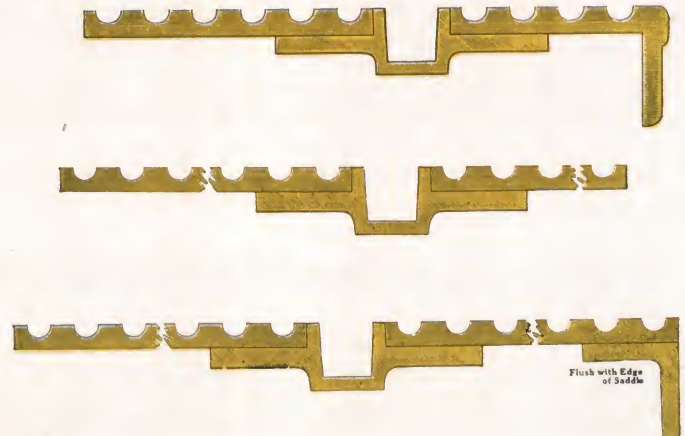


### CONSTRUCTION OF BRONZE ELEVATOR SADDLE WITH SINGLE GROOVE

SINGLE GROOVE ELEVATOR SADDLES are generally used for elevator doors opening to the right or left, or center opening. The groove in which the door slides usually extends behind the partition.

The location of the grooves is determined by the thickness of the door, the type hanger and door closing device used and whether or not the partition wall is recessed to provide space for the sliding door.

Single groove elevator saddles are constructed by using one or more Flat Fluted Sections No. 4550 to No. 4559 of suitable width, together with Single Groove Section No. 4585. The dimensions of the over-all depth are governed by the thickness of the door jamb.



### CONSTRUCTION OF BRONZE ELEVATOR SADDLE WITHOUT GROOVES

The method of constructing elevator saddles without grooves, with or without nosing, is practically the same as the construction of single groove elevator saddles.



The dimension from the shaft line to the center of the groove depends upon conditions in the elevator shaft. Usually, from  $\frac{3}{4}$ " to  $1\frac{1}{4}$ " clearance is allowed between the end of the saddle and the edge of the elevator cab.

When saddles of extreme width are to be constructed, two or more fluted flat sections, with or without nosing, may be used side by side or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.

If a sheet metal apron is used within the shaft Section No. 4560, or 4561 is used, or nosing No. 4565, or an angle. If an angle is used, same may be fastened flush with the edge of the saddle or the angle is recessed sufficiently to receive the apron.

The sheet metal apron may be straight or bent at an angle according to conditions in the elevator shaft and may be fastened to the nosing or angle in front or in back. If fastened to the front, the nosing is sufficiently heavy to receive tap screws. If fastened to the back, the head of the screw or bolt is countersunk into the leg of the nosing or angle.

If no sheet metal apron is used, the angle or nosing acts as a plaster stop.

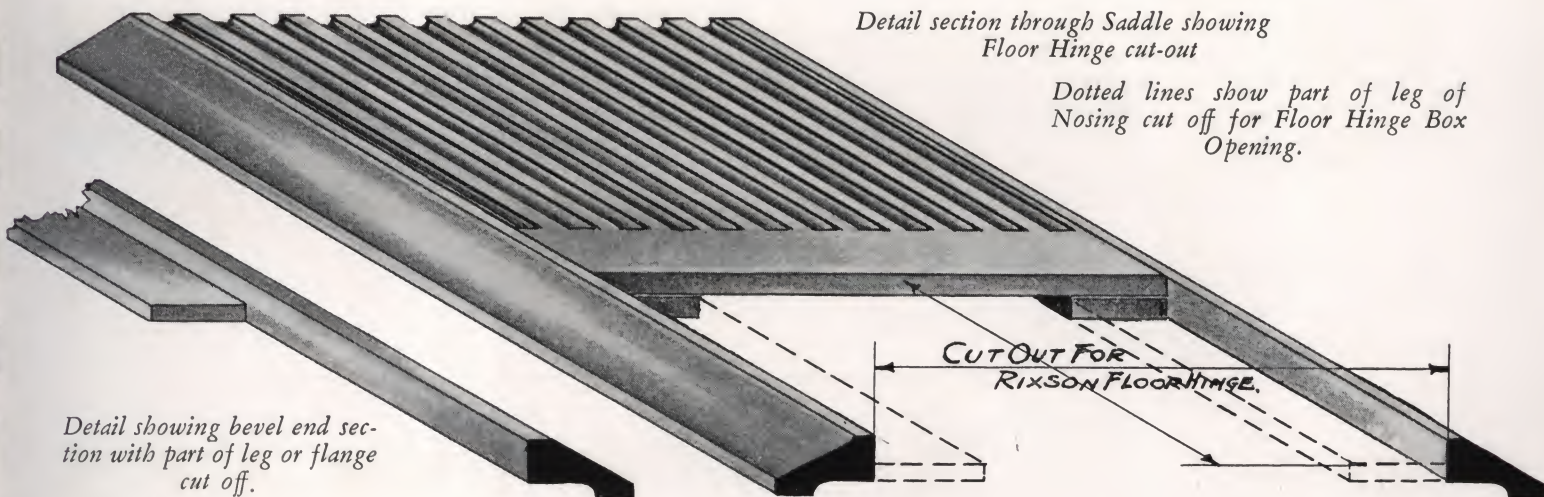
**NO BREAKAGE  
NO PATTERNS**

**NO IMPERFECTIONS  
LOW IN COST  
NO MACHINING OF GROOVES NECESSARY**

**NO STRAIGHTENING  
NO ERRORS**

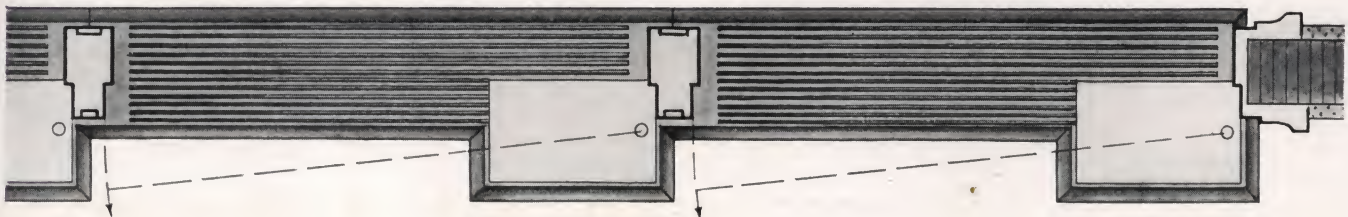


## Typical Construction of Door Saddles with cut-out for Floor Hinges

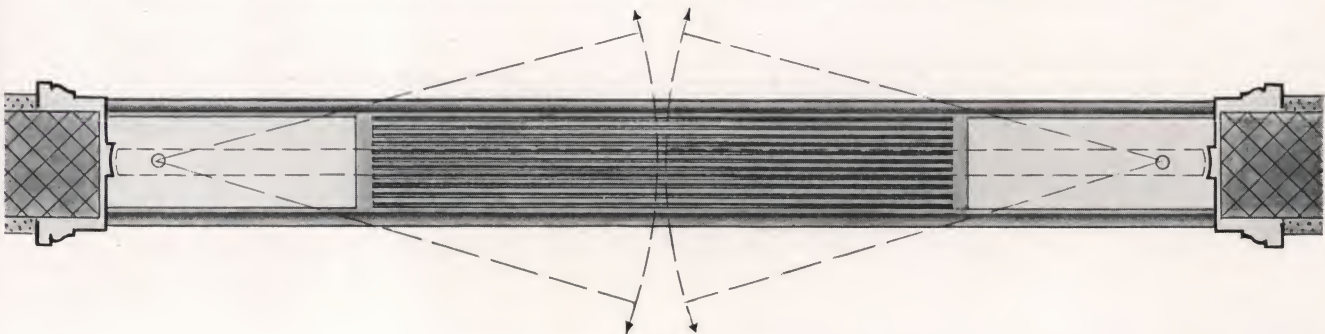


Thresholds with cut-outs for Mullions or Columns may be constructed easily and at low cost. The flat members (fluted or plain) may be cut out or notched out to fit the Mullion, Column or Jamb BEFORE assembling. Saddles constructed in this manner will fit perfectly and may be set at a minimum expense for field labor.

## Typical Construction of Door Saddles with Box cut-outs for Floor Hinges and cut-out for Mullions or Columns



## Typical Construction of Door Saddles with straight cut-out for Floor Hinges



**NO BREAKAGE  
NO PATTERNS**

**NO IMPERFECTIONS  
LOW IN COST**

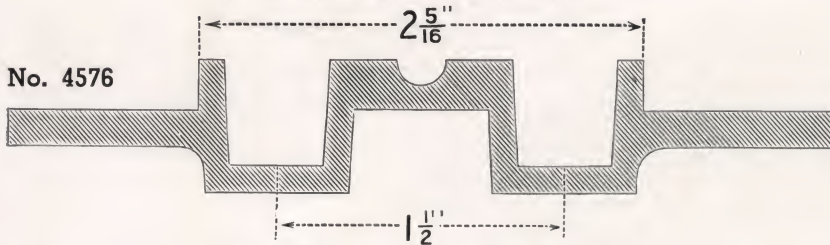
**NO WAITING**

**NO STRAIGHTENING  
NO ERRORS**

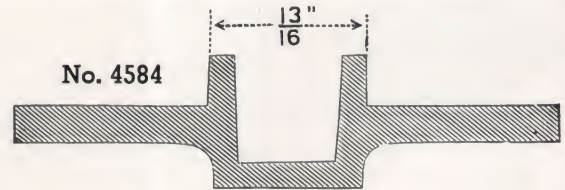


## Rolled Steel Saddle Sections for Elevator and Door Saddles

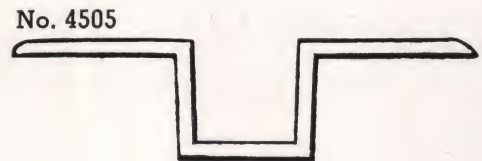
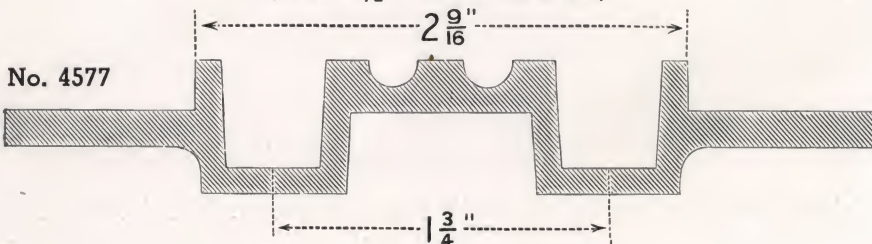
**DOUBLE GROOVED SECTION**  
(FOR 1 1/4" THICK DOORS)



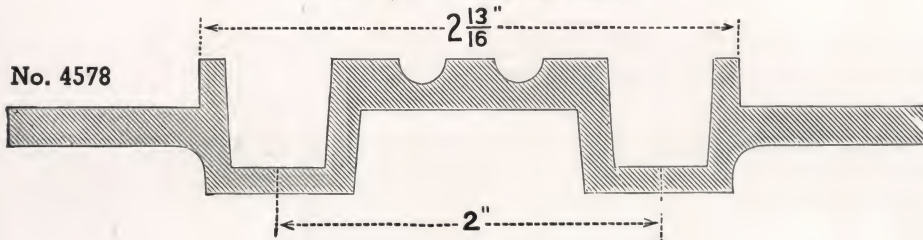
**SINGLE GROOVED SECTIONS**



(FOR 1 1/2" THICK DOORS)



(FOR 1 3/4" THICK DOORS)

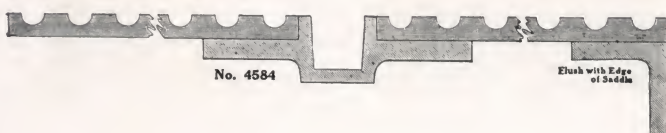
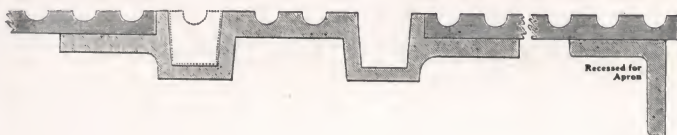


**INSERT SECTION**  
No. 4587



For filling up part of groove and for door stop.

### METHOD OF CONSTRUCTING SINGLE AND DOUBLE GROOVE SADDLES



The thickness of the doors governs the type of double groove section to be used. As a rule, 1/4" clearance is allowed between doors.

If doors are slightly thicker or thinner, the pins on the bottom of door are set a trifle off center.

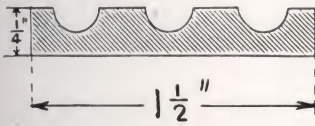
For details on construction and assembly see page 86 covering bronze grooved saddles. Steel and bronze sections used for this type saddle are similar in size and shape.



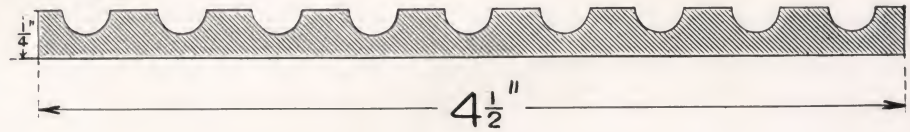


## Rolled Steel Sections for the Construction of Elevator Saddles and Door Sills

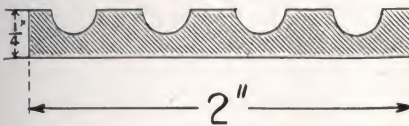
No. 4540



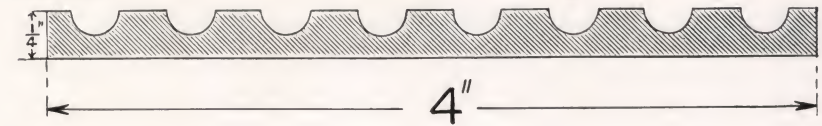
No. 4546



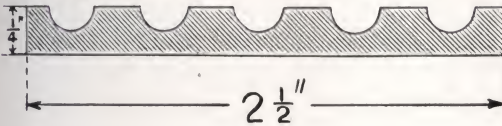
No. 4541



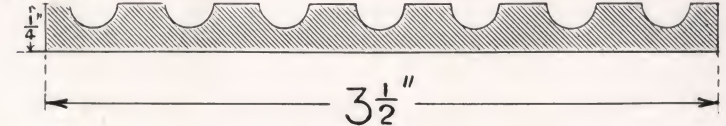
No. 4545



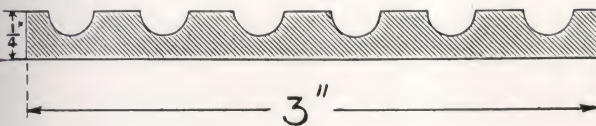
No. 4542



No. 4544

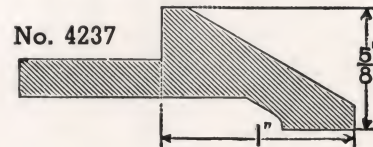


No. 4543

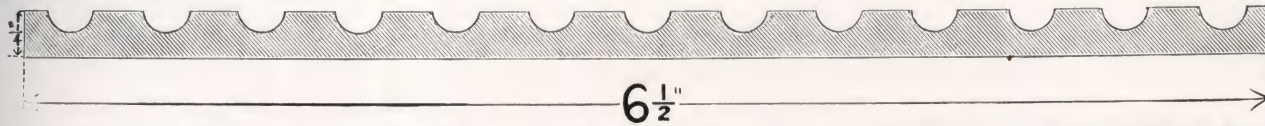


BEVEL END PIECE

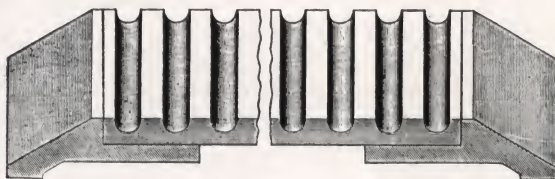
No. 4237



No. 4549

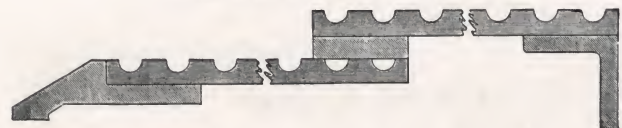


When door saddles of extreme depths or lengths are to be constructed, two or more fluted flat sections may be used side by side or on end with a plate underneath. The pattern of all fluted sections being identical, the joint will not be apparent.



Showing method by which ROLLED STEEL DOOR SADDLES of any depth or width or length, with or without panels, may be constructed by using Bevel End Piece No. 4237 together with Flat Fluted Sections.

ROOF DOOR SADDLE



DOOR SADDLE WITH GROOVE FOR SLIDING DOORS

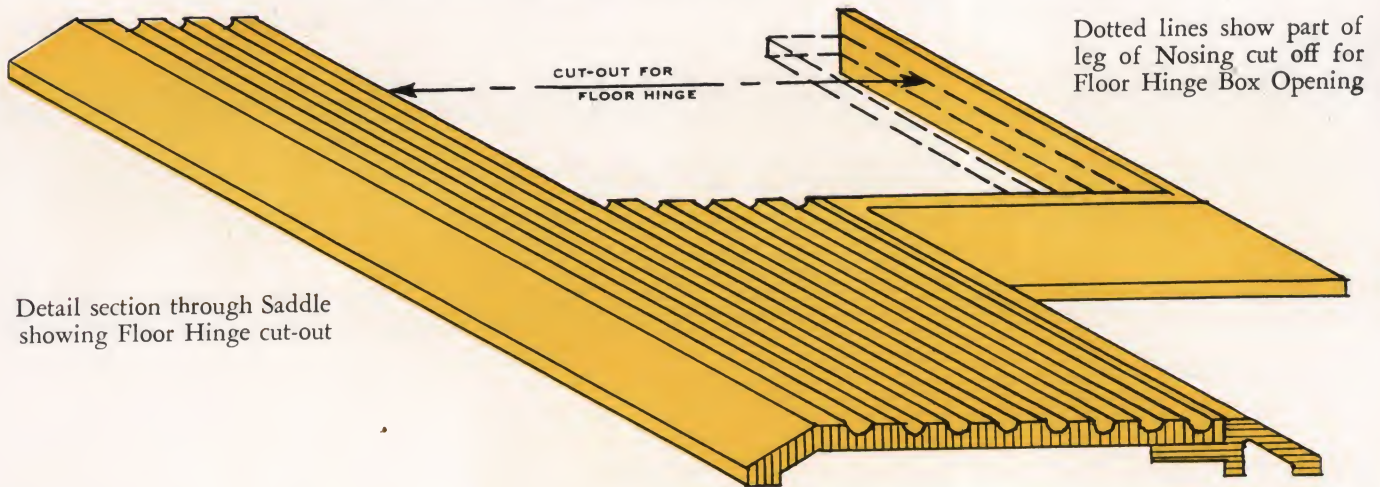


Saddles with double grooves (for double doors or screen doors) may be constructed in similar manner by using Double Groove Sections Nos. 4576, 4577 or 4578.

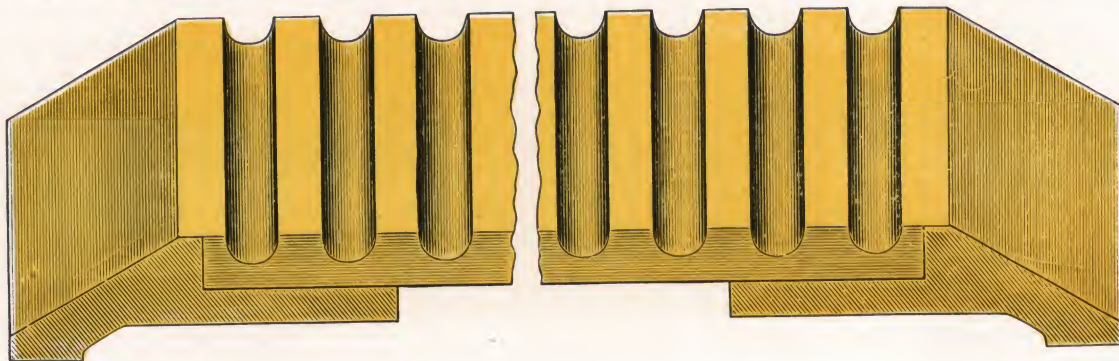




## Typical Construction of Door Saddles with cut-out for Floor Hinges



## Assembled Architectural Bronze Door Saddle Sections



**ASSEMBLED DOOR SADDLE**



**ASSEMBLED ROOF DOOR SADDLE**



**ASSEMBLED DOOR SADDLE WITH GROOVE**



Architectural Bronze Saddles of odd sizes or for installations requiring special types of construction are easily assembled from our stock sections.

These illustrations show a few typical forms of commonly used saddles. Saddles constructed in this manner are straight and true in alignment and accurate dimensions are easy to maintain.

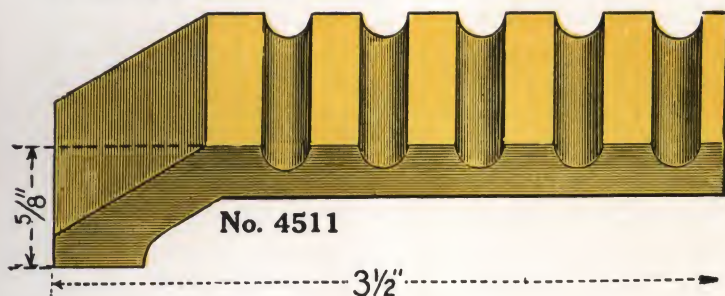
No delays are involved in making up such special saddles and pattern costs are eliminated.

It is a simple matter to select from our large variety of shapes the sections necessary for the assembly of practically any type of saddle.

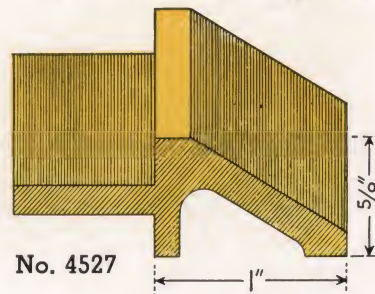


## Sections for the Construction of Door Saddles with Cut-Outs for Floor Hinges

ARCHITECTURAL BRONZE

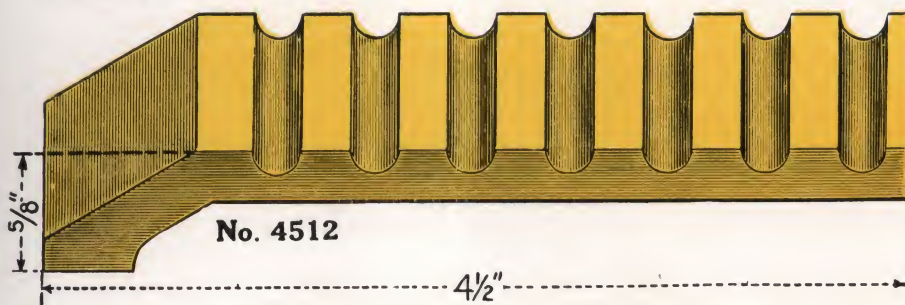


ARCHITECTURAL BRONZE

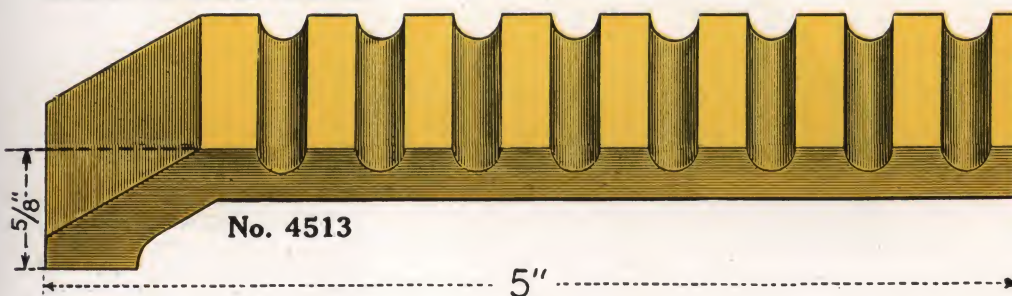


The leg or flange of Bevel End Nosing No. 4527 acts as support for the fluted section. This leg is notched out according to the size of the FLOOR HINGE BOX. See Illustration, Pages 87 and 90.

ARCHITECTURAL BRONZE



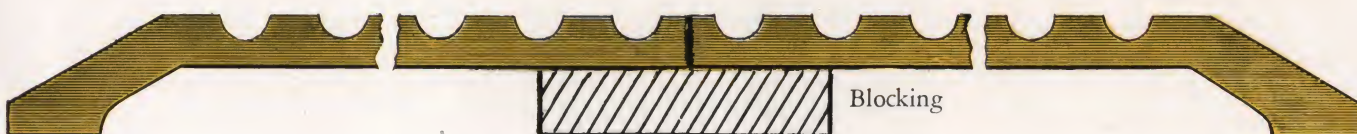
ARCHITECTURAL BRONZE



Bronze  
1/4" Half Round  
For Filling in Grooves



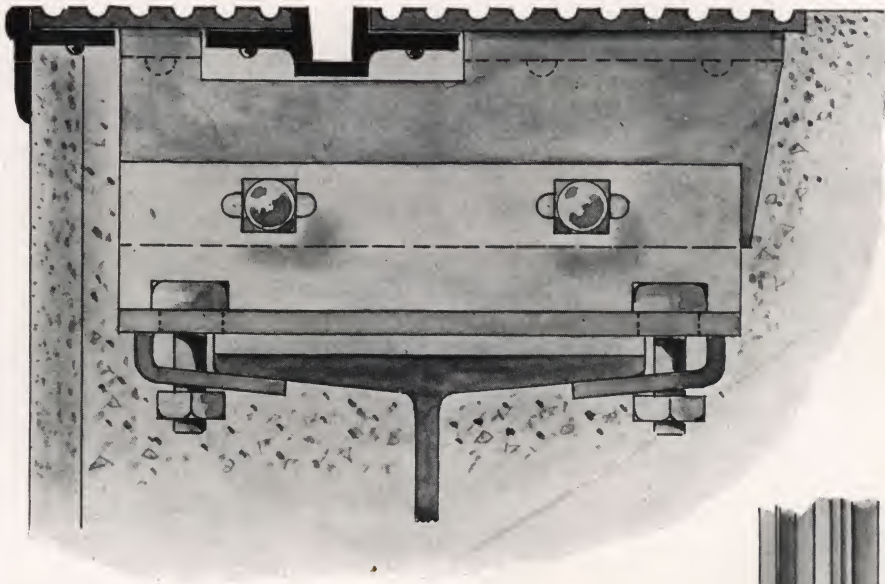
Showing method by which Architectural Bronze Door Saddles with or without cut-out for floor hinges may be constructed. To assemble Architectural Bronze Door Saddles of this type use sections Nos. 4511, 4512 or 4513 with Bevel End Nosing No. 4527.



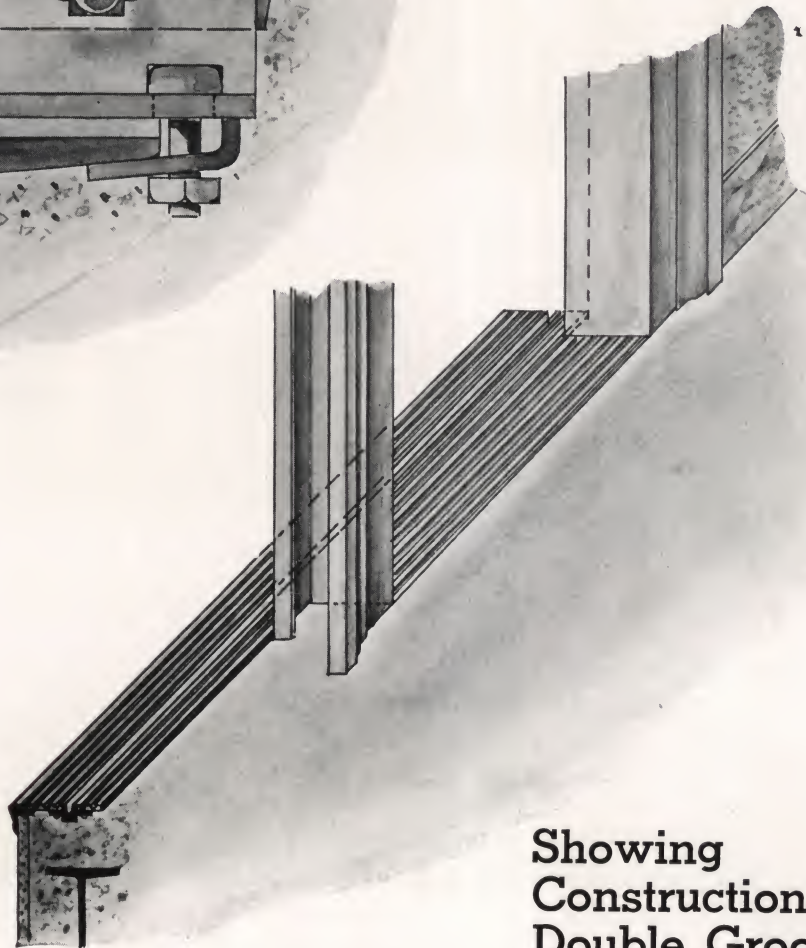
Showing method by which extra wide Architectural Bronze Door Saddles with or without cut-out for floor hinges may be constructed by using sections Nos. 4511, 4512 or 4513. For Floor Hinge Boxes at ends use Bevel End Nosing No. 4527. For Detail, See Page 90.



# TYPICAL CONSTRUCTION OF ELEVATOR SADDLES

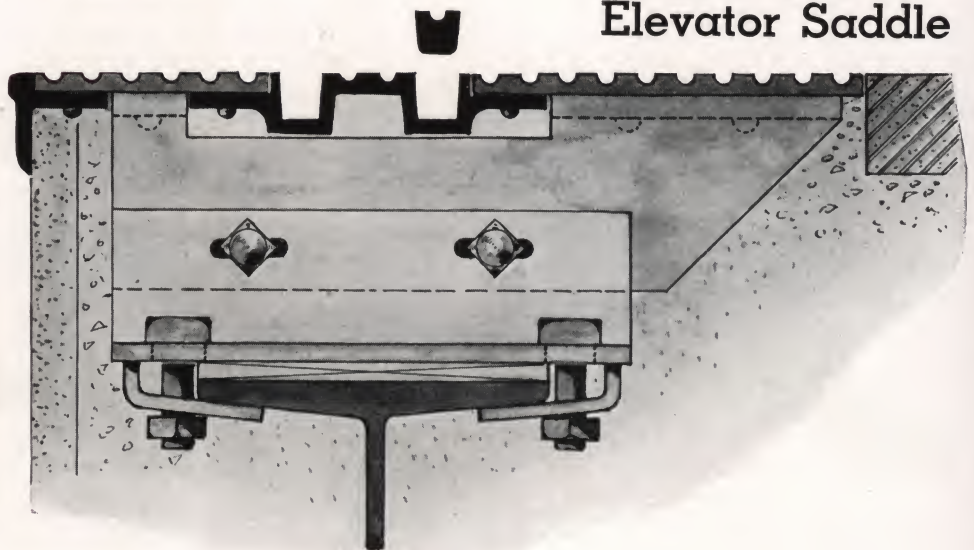


**Showing  
Construction of  
Single Groove  
Elevator Saddle**



**Showing  
Construction of  
Double Groove  
Elevator Saddle**

For erecting Elevator Saddles we recommend two angles, each with slotted holes, fastened in the shape of a Z to the bottom of the saddle. The legs of the bottom angles are fastened to the floor beam or channel, the saddle is then leveled between the jamb, the bolts and nuts connecting the two Z-shaped angles are tightened and the concrete flushed underneath.

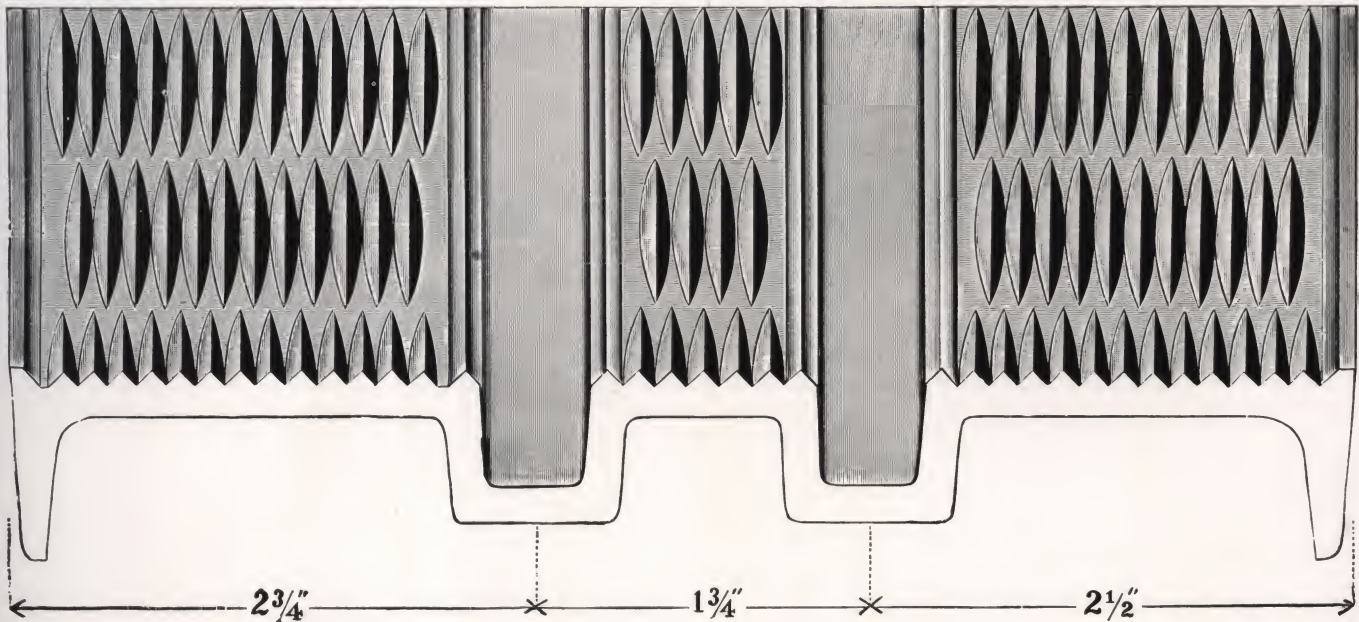




## HOT ROLLED STEEL ELEVATOR SADDLE

ROLLED IN ONE PIECE

No. 4517



ROLLED STEEL ELEVATOR SADDLE No. 4517 (with two grooves) may be used for single or double type sliding doors of various thicknesses, opening from center or sideways, operating on single or two speed hangers.

If necessary to close up part or all of one of the slots, filler section No. 4518, which fits snugly into either groove, may be used for this purpose.

ROLLED STEEL ELEVATOR SADDLE No. 4517 is reversible. Sufficient room is allowed on the  $2\frac{3}{4}$ " side for installation of door closing device.

Position or thickness of sliding doors may vary. Practically all conditions can be met by placing the pins at bottom of doors slightly off center.

The nosing on the side of the elevator shaft is slightly tilted in and beveled. This member acts as a lock for the plaster finish or it will receive the sheet steel facia or apron. Sufficient room is allowed for bolting the sheet to the *inside* of the nosing, thereby assuring a clean and neat finish.

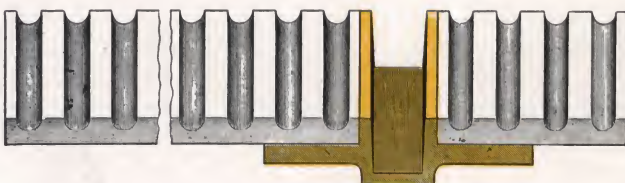
Our ROLLED STEEL ELEVATOR SADDLE No. 4517 is rolled true and smooth of best soft steel. It is strong and durable, cannot break, non-slipping, neat in appearance and requires no upkeep. The grooves or slots being rolled smooth and even, dirt does not collect and they may be kept clean easily. As a result doors will hang right, will not rattle and will operate easily and noiselessly.

ROLLED STEEL ELEVATOR SADDLES are carried in stock in long bars; can also be furnished cut to specified length.

No. 4518



Filler Section No. 4518 fits snugly into either groove of Saddle No. 4517



Showing a single groove elevator saddle constructed by means of hot rolled steel flat fluted sections of suitable width in conjunction with Architectural Bronze single groove section No. 4585. Double groove sections No. 4580, 4581, 4582 may be used in the same manner.

Saddles constructed in this manner are good in appearance and the perfect, smooth and true Architectural Bronze groove insures noiseless operation of elevator doors.



# MEMORANDUM

SUPPLEMENTAL DATA AND ILLUSTRATIONS MAY BE PASTED ON THIS PAGE

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## TUBING & SHAPES

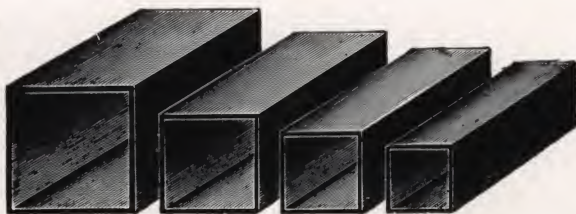
**J**ULIUS BLUM & CO., Inc. has long been recognized as a leading supplier of **Square and Rectangular Cold Drawn and Hot Rolled Tubing** for every type of architectural and industrial use. We carry in stock a complete range of commercial sizes in both light gauge and heavy wall tubing and can furnish special sizes on short notice. Square and Rectangular Tubing is furnished in long bars or cut to specified lengths.

The Shapes shown on the following pages include **Square Root Cold Drawn Angles and Deep Channels**. These Sections, as well as the other Shapes illustrated, are designed to meet the frequent demands for special type sections in structural and decorative construction.

We are also in a position to furnish special shapes and solicit your inquiries for any such requirements for special needs.



## Cold Drawn Mechanical Steel Tubing



### SQUARE

$\frac{3}{8}$ "	x	$\frac{3}{8}$ "	x	No. 18	B W G
$\frac{1}{2}$ "	x	$\frac{1}{2}$ "	x	"	18
$\frac{1}{2}$ "	x	$\frac{1}{2}$ "	x	"	16
$\frac{5}{8}$ "	x	$\frac{5}{8}$ "	x	"	16
$\frac{3}{4}$ "	x	$\frac{3}{4}$ "	x	"	16
$\frac{7}{8}$ "	x	$\frac{7}{8}$ "	x	"	16
1"	x	1"	x	"	20
1"	x	1"	x	"	18
1"	x	1"	x	"	16
$1\frac{1}{8}$ "	x	$1\frac{1}{8}$ "	x	"	16
$1\frac{1}{4}$ "	x	$1\frac{1}{4}$ "	x	"	16
$1\frac{1}{4}$ "	x	$1\frac{1}{4}$ "	x	"	14
$1\frac{1}{2}$ "	x	$1\frac{1}{2}$ "	x	"	20
$1\frac{1}{2}$ "	x	$1\frac{1}{2}$ "	x	"	16
$1\frac{1}{2}$ "	x	$1\frac{1}{2}$ "	x	"	14
$1\frac{3}{4}$ "	x	$1\frac{3}{4}$ "	x	"	14
2"	x	2"	x	"	16
2"	x	2"	x	"	14
$2\frac{1}{2}$ "	x	$2\frac{1}{2}$ "	x	"	14
3"	x	3"	x	"	16
3"	x	3"	x	"	14
3"	x	3"	x	"	10
3"	x	3"	x	"	7
$3\frac{1}{2}$ "	x	$3\frac{1}{2}$ "	x	"	7
4"	x	4"	x	"	10
4"	x	4"	x	"	7

### COLD DRAWN SEAMLESS SQUARE STEEL TUBING

(Soft Annealed)

$\frac{3}{8}$ "	x	$\frac{3}{8}$ "	x	No. 20	B.W.G.
$\frac{1}{2}$ "	x	$\frac{1}{2}$ "	x	"	20
$\frac{5}{8}$ "	x	$\frac{5}{8}$ "	x	"	20
$\frac{3}{4}$ "	x	$\frac{3}{4}$ "	x	"	20

Seamless Square Steel Tubing, on account of its soft anneal, lends itself advantageously to bending, twisting and shaping operations.



### RECTANGULAR

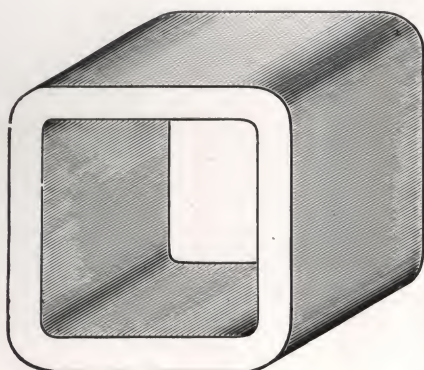
$\frac{3}{8}$ "	x	$\frac{3}{4}$ "	x	No. 16	B W G
$\frac{3}{8}$ "	x	1"	x	"	16
$\frac{5}{8}$ "	x	2"	x	"	14
$\frac{3}{4}$ "	x	$\frac{3}{8}$ "	x	"	16
$\frac{3}{4}$ "	x	$1\frac{1}{2}$ "	x	"	14
1"	x	$\frac{3}{8}$ "	x	"	16
1"	x	$1\frac{1}{2}$ "	x	"	14
1"	x	2"	x	"	14
1"	x	$2\frac{1}{2}$ "	x	"	14
1"	x	3"	x	"	14
1"	x	$3\frac{1}{2}$ "	x	"	14
$1\frac{1}{4}$ "	x	$1\frac{3}{4}$ "	x	"	14
$1\frac{1}{4}$ "	x	2"	x	"	14
$1\frac{1}{4}$ "	x	$2\frac{1}{2}$ "	x	"	16
$1\frac{1}{4}$ "	x	$2\frac{1}{2}$ "	x	"	14
$1\frac{1}{4}$ "	x	3"	x	"	14
$1\frac{1}{4}$ "	x	$3\frac{1}{2}$ "	x	"	14
$1\frac{1}{2}$ "	x	$\frac{3}{4}$ "	x	"	14
$1\frac{1}{2}$ "	x	1"	x	"	14
$1\frac{1}{2}$ "	x	2"	x	"	14
$1\frac{1}{2}$ "	x	$2\frac{1}{2}$ "	x	"	14
$1\frac{1}{2}$ "	x	3"	x	"	16
$1\frac{1}{2}$ "	x	3"	x	"	14
$1\frac{1}{2}$ "	x	$3\frac{1}{2}$ "	x	"	14
$1\frac{3}{4}$ "	x	$1\frac{1}{4}$ "	x	"	14
2"	x	$\frac{5}{8}$ "	x	"	14
2"	x	1"	x	"	14
2"	x	$1\frac{1}{4}$ "	x	"	14
2"	x	$1\frac{1}{2}$ "	x	"	14
2"	x	3"	x	"	14
2"	x	4"	x	"	14
$2\frac{1}{2}$ "	x	1"	x	"	14
$2\frac{1}{2}$ "	x	$1\frac{1}{4}$ "	x	"	16
$2\frac{1}{2}$ "	x	$1\frac{1}{4}$ "	x	"	14
$2\frac{1}{2}$ "	x	$1\frac{1}{2}$ "	x	"	14
3"	x	1"	x	"	14
3"	x	$1\frac{1}{4}$ "	x	"	14
3"	x	$1\frac{1}{2}$ "	x	"	16
3"	x	$1\frac{1}{2}$ "	x	"	14
3"	x	2"	x	"	14
$3\frac{1}{2}$ "	x	1"	x	"	14
$3\frac{1}{2}$ "	x	$1\frac{1}{4}$ "	x	"	14
$3\frac{1}{2}$ "	x	$1\frac{1}{2}$ "	x	"	14
4"	x	2"	x	"	14

### OUTSIDE MEASUREMENTS

Square and rectangular steel tubing is carried in stock in long random lengths up to 20 feet.  
Can also be furnished cut to specified lengths.



## Heavy Wall Square and Rectangular Steel Tubing



**SQUARE**

1 " x 1 " x 1/8" WALL
1 " x 1 " x 3/16"
1 1/4" x 1 1/4" x .135"
1 1/4" x 1 1/4" x 3/16"
1 1/2" x 1 1/2" x 9/64"
1 1/2" x 1 1/2" x 3/16"
1 1/2" x 1 1/2" x 1/4"
2 " x 2 " x .145"
2 " x 2 " x 3/16"
2 " x 2 " x 1/4"
2 1/2" x 2 1/2" x 3/16"
3 " x 3 " x 1/8"
3 " x 3 " x 3/16"
3 " x 3 " x 1/4"
3 1/2" x 3 1/2" x 3/16"
4 " x 4 " x .134"
4 " x 4 " x 3/16"
4 " x 4 " x 1/4"

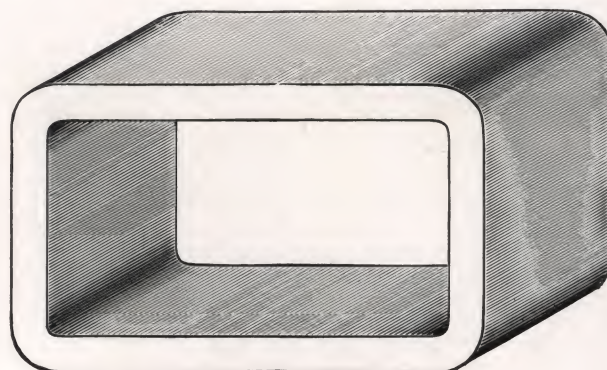
### COLD DRAWN

### HEXAGON STEEL TUBING



(Measurements are taken across flat sides)

5/8" x 20 B.W.G.
3/4" x 20 B.W.G.
7/8" x 20 B.W.G.
1 1/8" x 20 B.W.G.



**RECTANGULAR**

### OUTSIDE MEASUREMENTS

2 " x 1 1/2" x 9/64" WALL
2 1/2" x 1 1/2" x .145"
3 " x 2 " x 3/16"
4 " x 3 " x 3/16"
6 " x 3 " x 3/16"
6 " x 4 " x 3/16"
8 " x 3 " x 3/16"
8 " x 4 " x 3/16"

### WE CARRY IN STOCK POST CAPS

for structural steel tubing from 1 1/2" square to 4" square and from 4" x 3" rectangular to 8" x 4" rectangular. See Page 28.

### COLD DRAWN

### TWISTED SQUARE STEEL TUBING



1/2" x 1/2" x 20 gauge	1 " x 1 " x 20 B.W.G.
5/8" x 5/8" x 20 gauge	1 1/4" x 1 1/4" x 20 B.W.G.
3/4" x 3/4" x 20 gauge	1 1/2" x 1 1/2" x 18 B.W.G.
7/8" x 7/8" x 20 gauge	2 " x 2 " x 18 B.W.G.



**ARCHITECTURAL BRONZE SHAPES**All shapes are *square edge* and *square root***Channels**

$\frac{1}{2}$ "	x	$\frac{1}{2}$ "	x	$\frac{3}{32}$ "
1"	x	$\frac{1}{2}$ "	x	$\frac{1}{8}$ "
$1\frac{1}{4}$ "	x	$\frac{5}{8}$ "	x	$\frac{1}{8}$ "
$1\frac{1}{2}$ "	x	$\frac{5}{8}$ "	x	$\frac{1}{8}$ "
2"	x	$\frac{3}{4}$ "	x	$\frac{1}{8}$ "
$2\frac{1}{4}$ "	x	$\frac{7}{8}$ "	x	$\frac{1}{8}$ "

**Tees**

$\frac{3}{4}$ "	x	$\frac{3}{4}$ "	x	$\frac{1}{8}$ "
1"	x	1"	x	$\frac{1}{8}$ "

**Flats**

$\frac{1}{2}$ "	x	$\frac{1}{8}$ "
$\frac{1}{2}$ "	x	$\frac{3}{16}$ "
$\frac{5}{8}$ "	x	$\frac{1}{8}$ "
$\frac{5}{8}$ "	x	$\frac{3}{16}$ "
$\frac{5}{8}$ "	x	$\frac{1}{4}$ "
$\frac{3}{4}$ "	x	$\frac{1}{8}$ "
$\frac{3}{4}$ "	x	$\frac{3}{16}$ "
$\frac{3}{4}$ "	x	$\frac{1}{4}$ "
1"	x	$\frac{1}{8}$ "
1"	x	$\frac{3}{16}$ "
1"	x	$\frac{1}{4}$ "

$1\frac{1}{4}$ "	x	$\frac{1}{8}$ "
$1\frac{1}{4}$ "	x	$\frac{3}{16}$ "
$1\frac{1}{2}$ "	x	$\frac{1}{8}$ "
$1\frac{1}{2}$ "	x	$\frac{3}{16}$ "
2"	x	$\frac{1}{8}$ "
2"	x	$\frac{3}{16}$ "
2"	x	$\frac{1}{4}$ "
$2\frac{1}{2}$ "	x	$\frac{3}{16}$ "
3"	x	$\frac{3}{16}$ "
3"	x	$\frac{1}{4}$ "

**Squares** $\frac{3}{8}$ " —  $\frac{1}{2}$ " —  $\frac{5}{8}$ " —  $\frac{3}{4}$ " — 1" —  $1\frac{1}{4}$ "**Angles**

$\frac{1}{2}$ "	x	$\frac{1}{2}$ "	x	$\frac{1}{8}$ "
$\frac{5}{8}$ "	x	$\frac{5}{8}$ "	x	$\frac{1}{8}$ "
$\frac{3}{4}$ "	x	$\frac{3}{4}$ "	x	$\frac{1}{8}$ "
1"	x	1"	x	$\frac{1}{8}$ "
1"	x	1"	x	$\frac{3}{16}$ "
$1\frac{1}{4}$ "	x	$1\frac{1}{4}$ "	x	$\frac{1}{8}$ "
$1\frac{1}{2}$ "	x	$1\frac{1}{2}$ "	x	$\frac{1}{8}$ "
2"	x	2"	x	$\frac{1}{8}$ "

**SEAMLESS DRAWN ARCHITECTURAL BRONZE SQUARE AND RECTANGULAR TUBING****Square**

$\frac{1}{2}$ "	x	No. 16	B. W. G.
$\frac{5}{8}$ "	x	No. 16	"
$\frac{3}{4}$ "	x	No. 16	"
1"	x	No. 16	"
$1\frac{1}{4}$ "	x	No. 14	"
$1\frac{1}{2}$ "	x	No. 14	"
2"	x	No. 14	"

**Rectangular**

OUTSIDE	2"	x	1"	x	No. 14	B. W. G.
MEASUREMENTS	$2\frac{1}{2}$ "	x	$1\frac{1}{4}$ "	x	No. 14	"
	3"	x	$1\frac{1}{2}$ "	x	No. 14	"
	3"	x	2"	x	No. 14	"

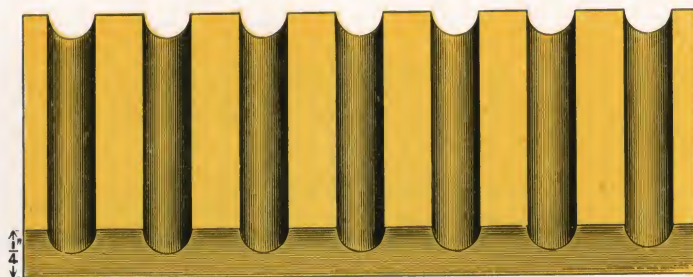
We can furnish *from mill* a large variety of sizes and gauges of square and rectangular Architectural Bronze Tubing.

**ARCHITECTURAL ALUMINUM CHANNELS**

ALL ARE SQUARE EDGE AND SQUARE ROOT

$\frac{1}{2}$ "	x	$\frac{1}{2}$ "	x	$\frac{3}{32}$ "
1"	x	$\frac{1}{2}$ "	x	$\frac{1}{8}$ "
$1\frac{1}{4}$ "	x	$\frac{5}{8}$ "	x	$\frac{1}{8}$ "

$1\frac{1}{2}$ "	x	$\frac{5}{8}$ "	x	$\frac{1}{8}$ "
$2\frac{1}{4}$ "	x	$\frac{7}{8}$ "	x	$\frac{1}{8}$ "

**Flat Fluted Sections****ARCHITECTURAL BRONZE**

No. 4558— $1\frac{1}{2}$ "	wide
4557—2"	"
4556— $2\frac{1}{2}$ "	"
4555—3"	"
4554— $3\frac{1}{2}$ "	"
4553—4"	"

No. 4553Q— $4\frac{1}{4}$ "	wide
4552— $4\frac{1}{2}$ "	"
4551—5"	"
4550— $5\frac{1}{2}$ "	"
4559— $6\frac{1}{8}$ "	"

Architectural Bronze Flat Fluted Sections may be used for many practical and decorative purposes such as:

For Pilasters and Mullions

For Edge Protection

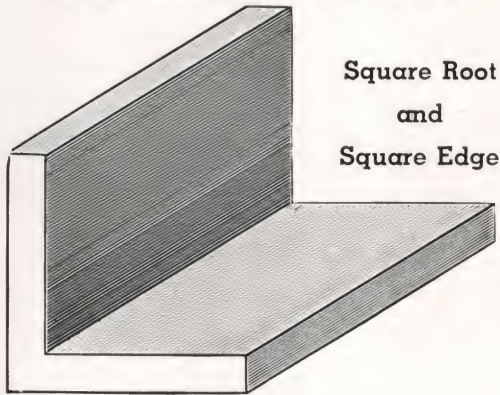
For Decorative Trim

For the construction of Elevator Saddles and Thresholds see pages 86, 87.

For details of all sizes see page 85.

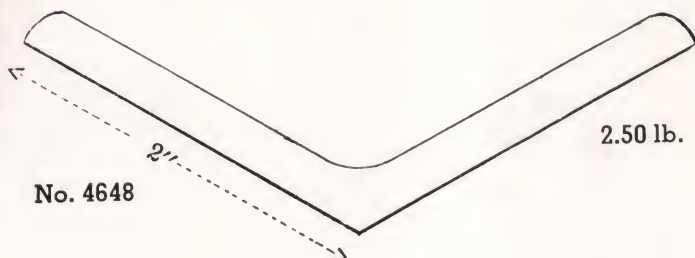
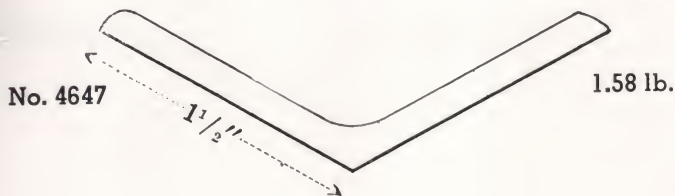


**COLD DRAWN STEEL ANGLES**



$\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{1}{8}$ "  
 $\frac{5}{8}$ " x  $\frac{5}{8}$ " x  $\frac{1}{8}$ "  
 $\frac{3}{4}$ " x  $\frac{3}{4}$ " x  $\frac{1}{8}$ "  
1" x  $\frac{5}{8}$ " x  $\frac{1}{8}$ "  
1" x 1" x  $\frac{1}{8}$ "  
 $1\frac{1}{4}$ " x  $1\frac{1}{4}$ " x  $\frac{1}{8}$ "  
 $1\frac{1}{4}$ " x  $1\frac{1}{4}$ " x  $\frac{3}{16}$ "  
 $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x  $\frac{1}{8}$ "  
 $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x  $\frac{3}{16}$ "  
2" x 1" x  $\frac{1}{8}$ "  
2" x 2" x  $\frac{1}{8}$ "  
2" x 2" x  $\frac{3}{16}$ "  
 $2\frac{1}{2}$ " x  $2\frac{1}{2}$ " x  $\frac{3}{16}$ "  
3" x 3" x  $\frac{3}{16}$ "

**120° HOT ROLLED STEEL ANGLES**



**SQUARE ROOT HOT ROLLED STEEL ANGLES**

No. 4700



No. 4701



No. 4702



No. 4709



**SQUARE ROOT HOT ROLLED STEEL ANGLES  
UNEQUAL LEG**

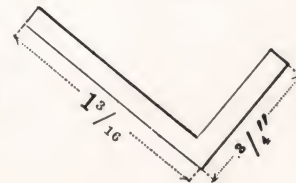
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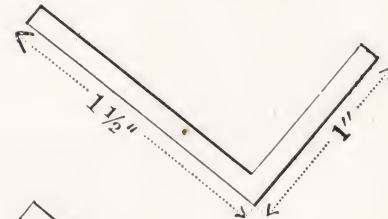
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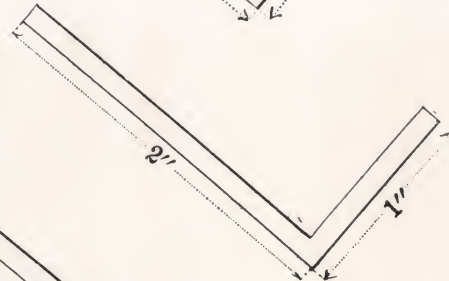
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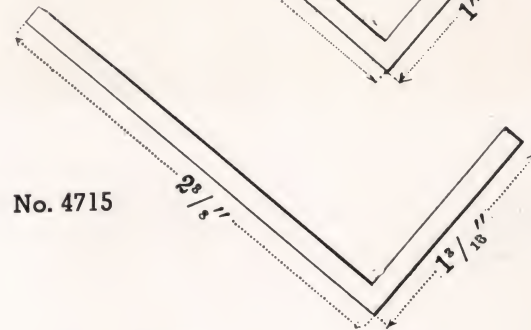
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No. 4714

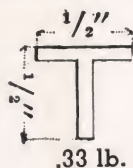


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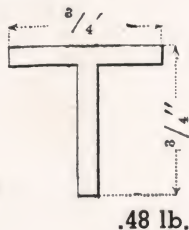
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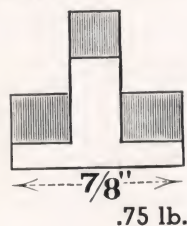
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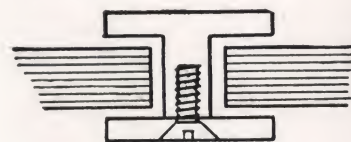
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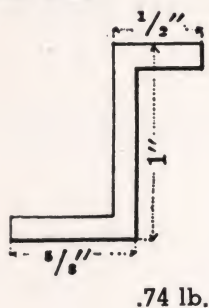
No. 4618



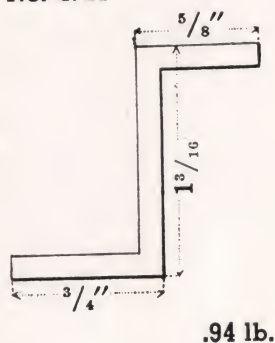
Method of constructing: Glass  
Frame with Moulding No. 4618  
and Flat Bar.



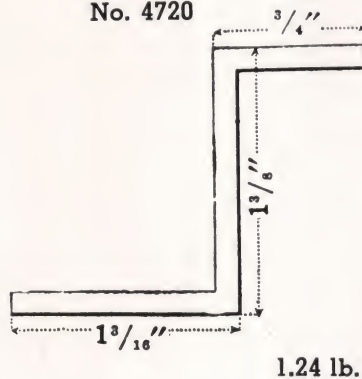
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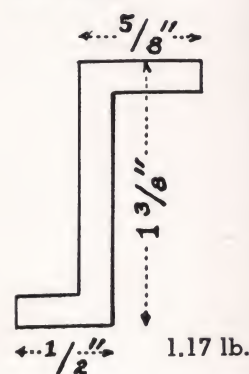
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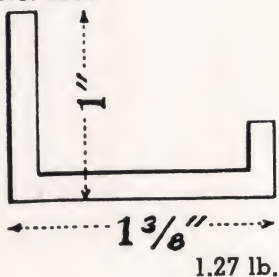
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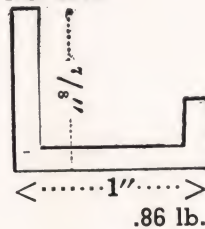
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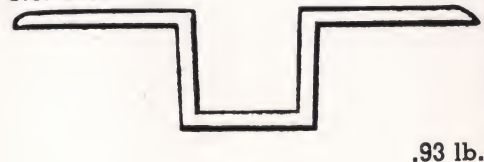
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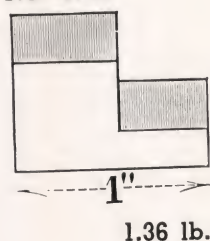
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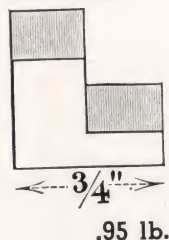
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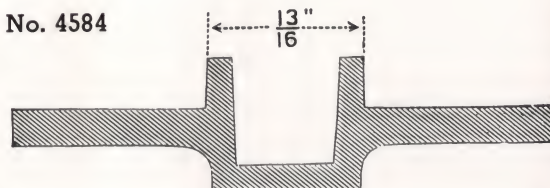
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No. 4470



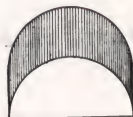
No. 4584



## COLD ROLLED STEEL HALF ROUNDS



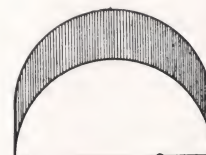
WIDTH — 1/2"  
HEIGHT — 1/4"



WIDTH — 5/8"  
HEIGHT — 1/8"



WIDTH — 3/4"  
HEIGHT — 3/8"

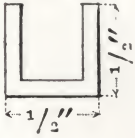


WIDTH — 1"  
HEIGHT — 1/2"

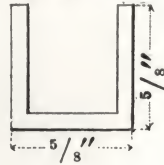


## ROLLED STEEL CHANNELS

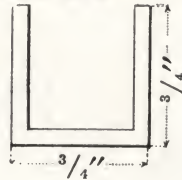
No. 4730



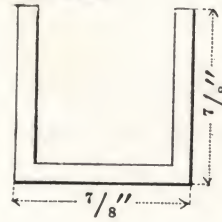
No. 4731



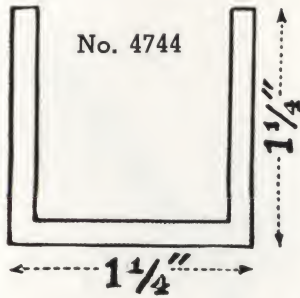
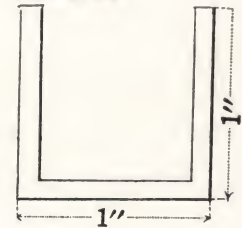
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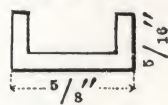
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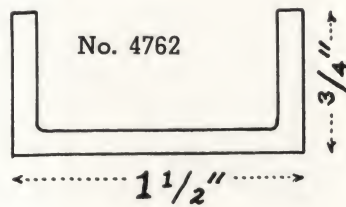
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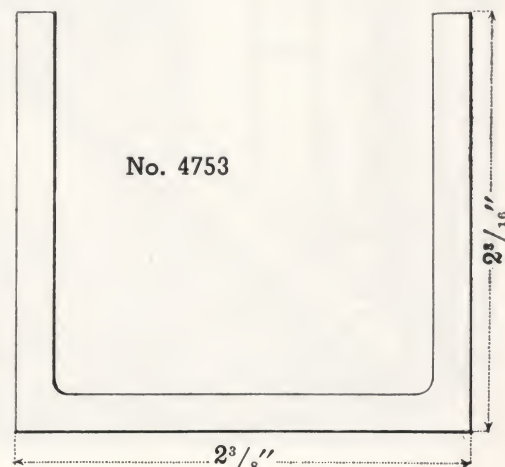
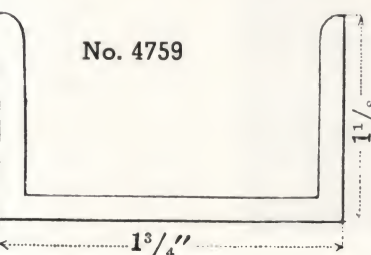
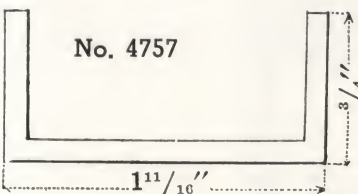
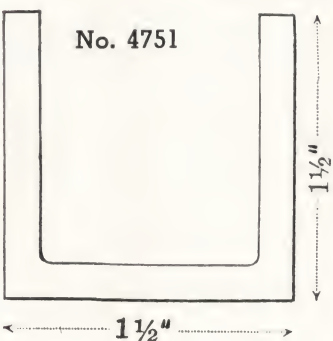
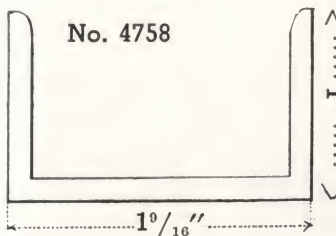
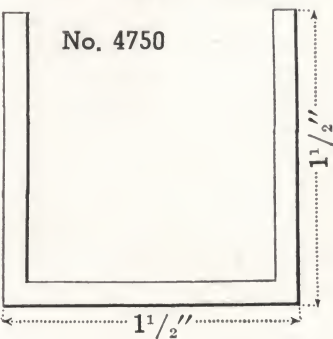
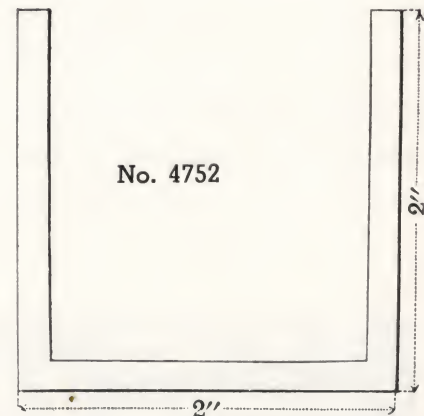
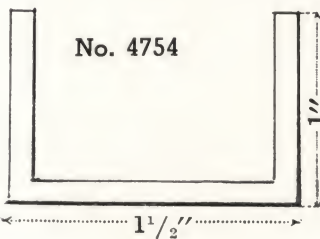
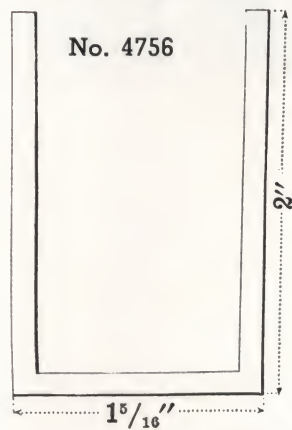
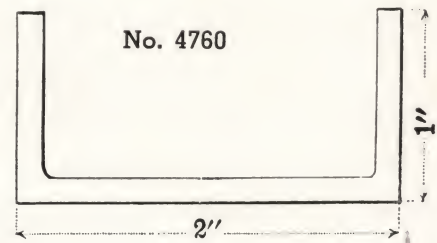
No. 4735



Cold Drawn  
Folding Gate  
Channel



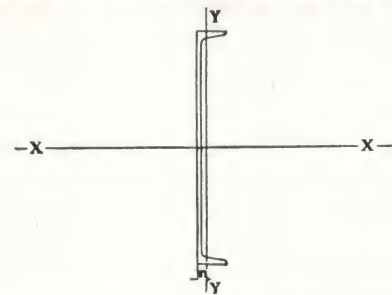
No. 4760





## J & L JUNIOR 10" AND 12" STEEL STAIR CHANNELS

J & L Junior Channels are exclusive Jones & Laughlin rolled steel channel sections available in three sizes: 10" 6.5 lb., 10" 8.4 lb. and 12" 10.6 lb. per foot. These channels weigh much less than the lightest standard structural channel of equal depth; yet embody all of the characteristics of true form, and constancy of dimension offered by a hot rolled section. They are much stronger than formed plate channels of equal weight and in addition assure perfect fitting square corners and true lines. With these exclusive advantages you can design minimum steel weight, at low steel cost, without sacrificing structural strength. Handling and fabrication also are facilitated by the reduced weight.



**Functions of Sections**

Section No.	Depth of Channel and Wt. per Ft. Lbs.	Area Sq. In.	Axis X-X (Perpendicular to Web)			Axis Y-Y (Parallel to Web)			
			I	S	r	n'	I'	S'	r'
C-758	10"- 6.5	1.91	22.1	4.4	3.47	.19	.12	.13	.25
C-752	10"- 8.4	2.47	32.3	6.5	3.61	0.29	0.33	0.28	0.37
C-700	12"-10.6	3.12	55.8	9.3	4.23	0.27	0.39	0.32	0.35

**Dimensions**

Section Index	Depth of Channel, Inches	Weight per Foot, Pounds	Flange Width		Web Thickness	
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch
C-758	10	6.50	1.125	1 $\frac{1}{8}$	.150	$\frac{3}{20}$
C-752	10	8.4	1.500	1 $\frac{1}{2}$	.170	$\frac{11}{64}$
C-700	12	10.6	1.500	1 $\frac{1}{2}$	.190	$\frac{3}{16}$





## ORNAMENTS

**M**ANY forms of construction require decorative effects which also serve a practical purpose.

It is not convenient to list in this catalog the large variety of ornaments which Julius Blum & Co., Inc. carries in stock. These include Forged and Pressed Steel Rosettes, Leaves, Cups, Husks, Candle Pans, Flowers, Gallery Mouldings, Crestings, etc.

We would suggest that you send us drawings of the pieces required and we will be pleased to submit a full size drawing or sample for your approval.

Fabricators and Designers of Ornamental Metal, Metal Furniture, Lighting Fixtures, Fire Screens, Signs, Hardware, Radiator Enclosures, Cabinets, Flower Stands and Novelties will find opportunities for creative design and numerous applications in this selection of JULIUS BLUM products.



## APPLIED DESIGNS

Ornamentation of exceptionally fine character may be achieved by using APPLIED DESIGNS and ROSETTES, together with Mouldings and Shapes. Some examples, illustrating how this material may be advantageously used for the construction of Store Fronts, Bank Screens, Posts, etc., are shown on Pages Nos. 60, 74 and 106.

APPLIED DESIGNS may be used for decorative purposes for almost any kind of ornamental work, for furniture, signs, mirrors, etc., also for panels in marble, wood, plaster, etc.

ALL APPLIED DESIGNS and ROSETTES shown can be furnished from stock in *CAST IRON*, *ARCHITECTURAL BRONZE* and *ALUMINUM*.

APPLIED DESIGNS are a *finished product*, requiring no further labor than drilling and fitting together.

### APPLIED DESIGNS — ROSETTES



No. 6201

No. 6202

No. 6203

*Illustrations are shown ONE-THIRD actual size*

APPLIED DESIGNS as shown may be used in short sections (by finishing end pieces) or as a continuous pattern. Corners may be formed by mitering or by using ROSETTES to match.

## ROSETTES

CAST IRON

CAST IRON

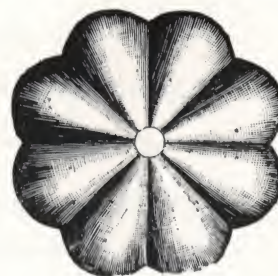


No. 554  
2<sup>3</sup>/<sub>4</sub>" Dia.



No. 553  
3<sup>3</sup>/<sub>4</sub>" x 2<sup>1</sup>/<sub>4</sub>" Oval

PRESSED STEEL



1", 1<sup>1</sup>/<sub>4</sub>", 1<sup>1</sup>/<sub>2</sub>",  
2" or 3" Dia.

## FORGED AND PRESSED ORNAMENTS

We carry in stock a large variety of Rosettes, Leaves, Cups, Husks, Candle Pans, Shields, Heads, Corners, Flowers, Wreaths, Gallery Mouldings, Crestings, etc.



It is not practicable to show Forged and Pressed Ornaments in catalog form because of the large variety of shapes and sizes. We suggest you include with your inquiries a sketch showing size and type required and we shall be pleased to submit details or samples of ornaments available for your needs.

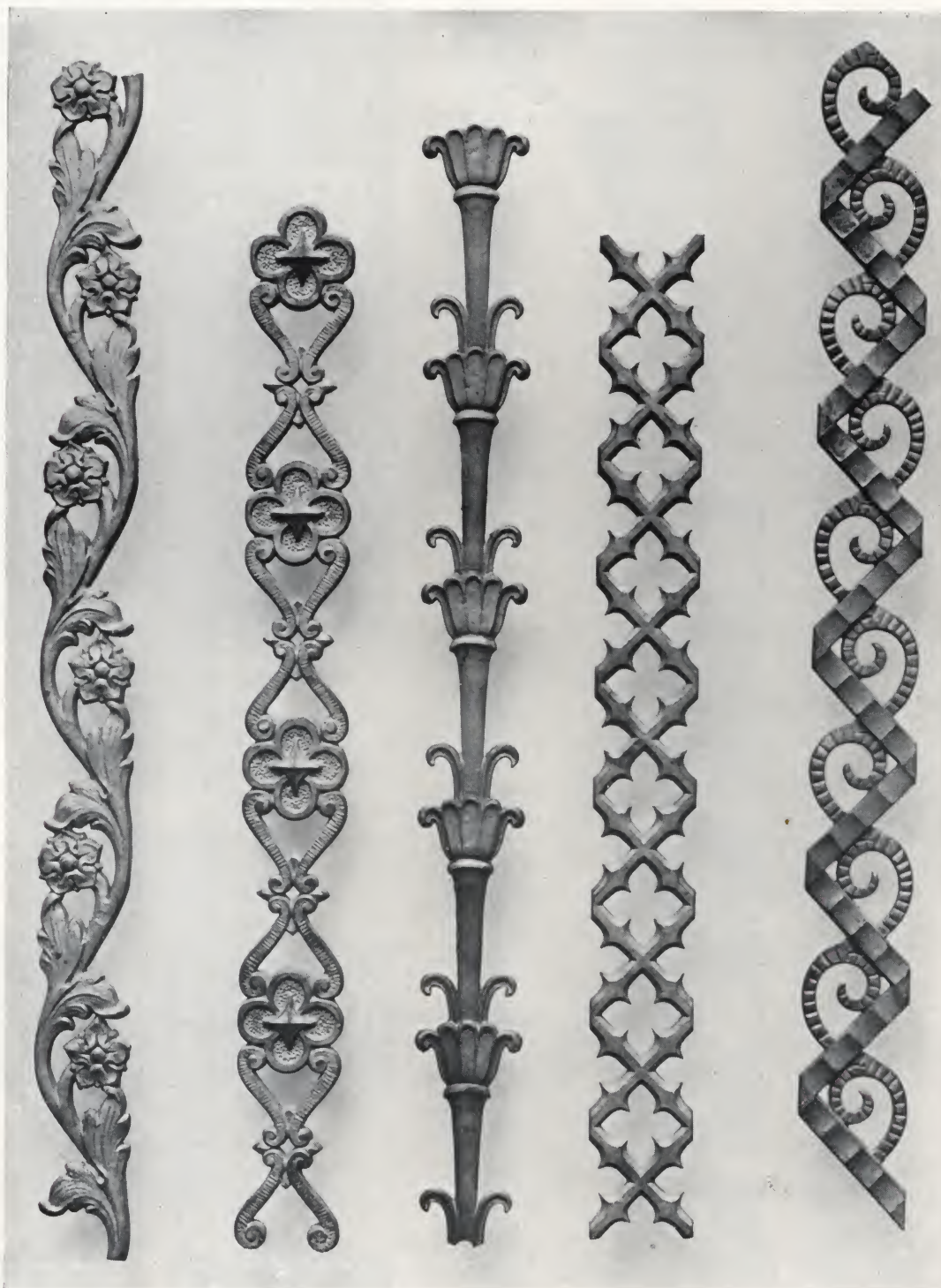


## APPLIED DESIGNS

All Applied Designs and Rosettes can be furnished in Cast Iron,  
Architectural Bronze and Aluminum

For Details of Construction Refer to Page No. 106

ALL APPLIED DESIGNS and Rosettes match in color our Architectural Bronze or Aluminum shapes.



No. 6215

No. 6216

No. 6217

No. 6218

No. 6219

Illustrations are shown ONE-THIRD actual size



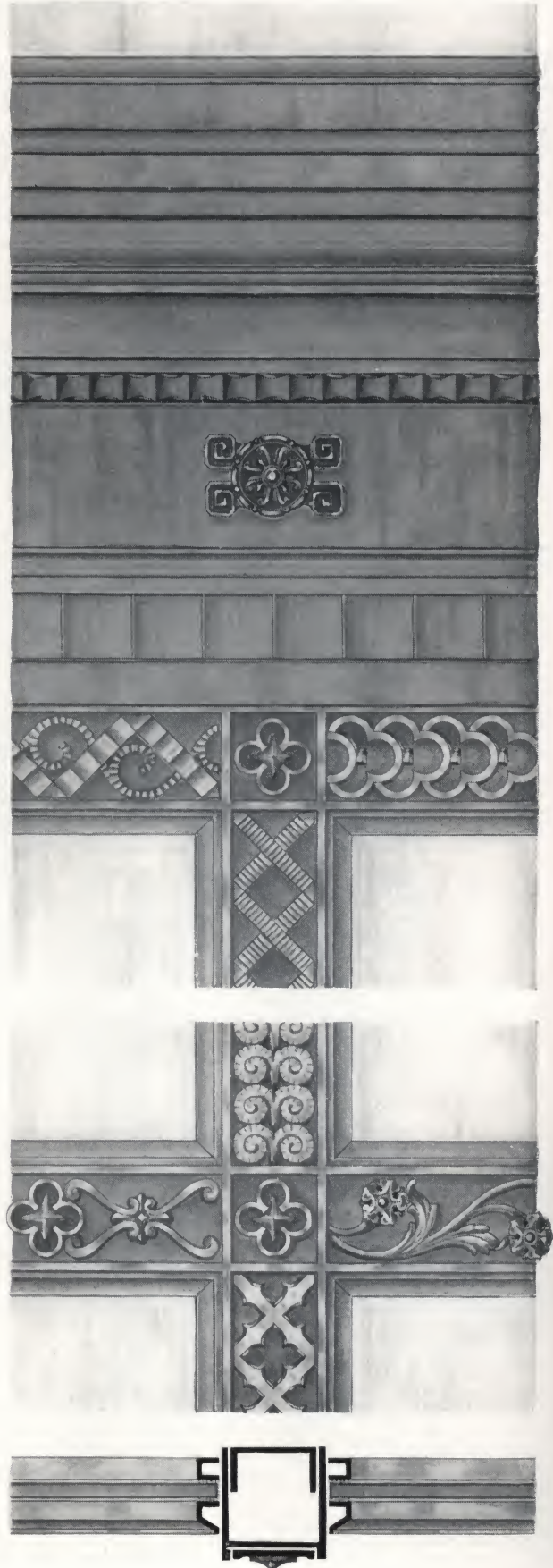
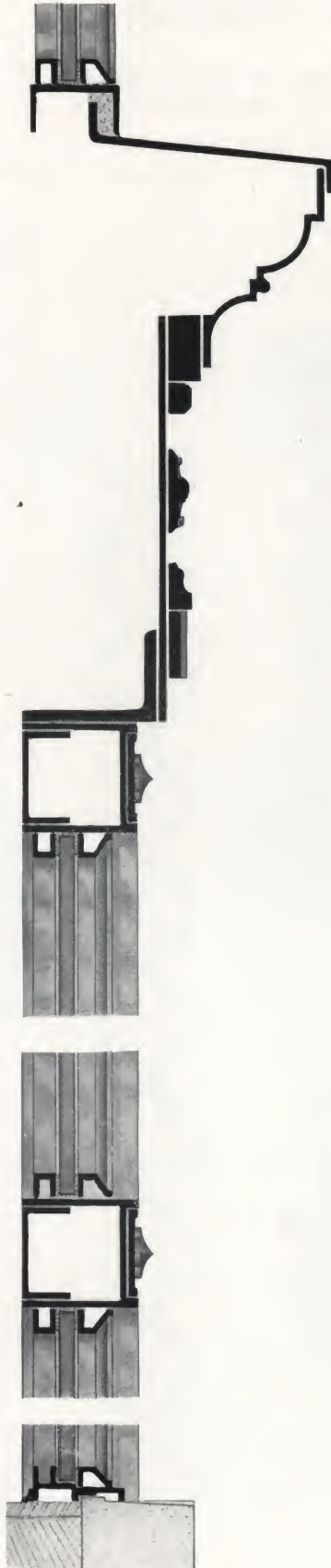
## Cornice Store Front Bank Screen & Mullion Construction

A great variety of constructions may be produced in this or a similar manner by using steel, bronze and aluminum shapes, ornamented with Applied Designs and Rosettes. Page Nos. 104, 105 and 107.

*The variety of patterns of Applied Designs are shown merely for the purpose of illustrating their appearance, not as a suggestion that they should be used in the combination as shown here.*

The beauty of the design may be greatly enhanced by combining steel, bronze and aluminum shapes.

For various mullion and corner constructions, see details on Page Nos. 60 and 74.



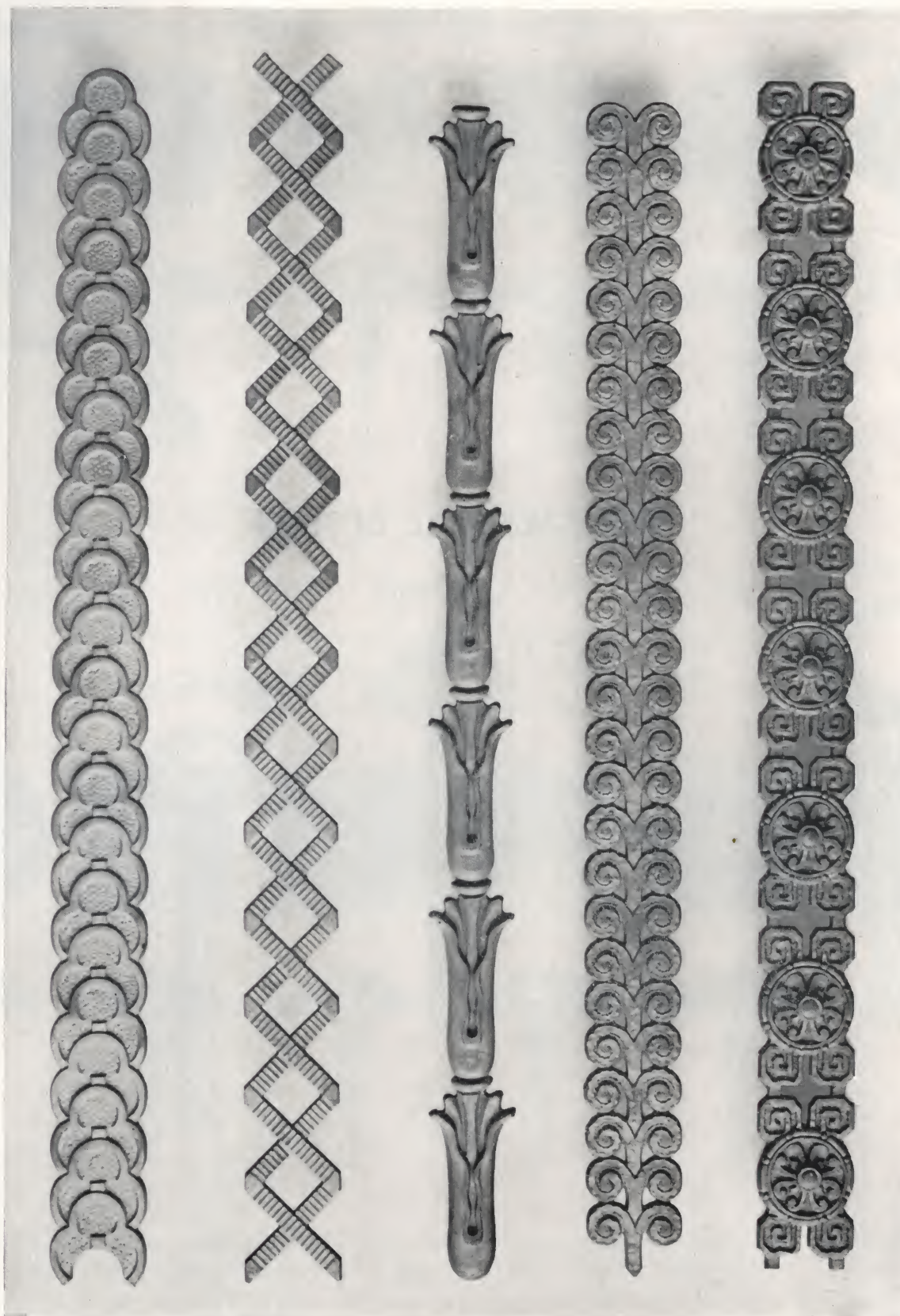


## APPLIED DESIGNS

All Applied Designs and Rosettes can be furnished in Cast Iron,  
Architectural Bronze and Aluminum

For Details of Construction Refer to Page Nos. 60 and 74

ALL APPLIED DESIGNS and Rosettes match in color our Architectural Bronze or Aluminum shapes.



No. 6210

No. 6211

No. 6212

No. 6213

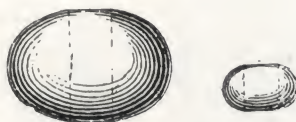
No. 6214

Illustrations are shown ONE-THIRD actual size



**ORNAMENTAL BALLS (with Drilled Holes)****ROUND BALLS**

No.	Size
00000	—1½" dia.
0000	—1⅜" dia.
000	—1¼" dia.
00	—1⅛" dia.
0	—1" dia.
1	—¾" dia.
2	—¾" dia.
3	—⅝" dia.
4	—½" dia.
5	—⅜" dia.
41	—⅝" dia.
42	—¼" dia.

**OVAL BALLS**

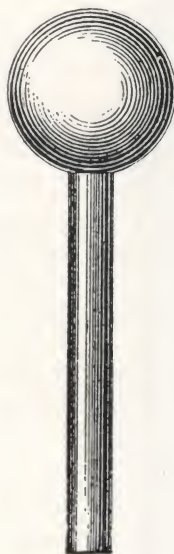
No.	Size
111	—1" x ⅝"
110	—⅞" x 9/16"
109	—¾" x 7/16"
108	—⅝" x 7/16"
107	—½" x 5/16"
106	—⅜" x ¼"

**OVAL BALLS WITH SHOULDER**

No.	Size
70	—1" x ⅝"
71	—¾" x ½"

**HALF ROUND BALLS**

No.	Size
26	—1"
27	—⅞"
28	—¾"
13	—⅝"
14	—9/16"
15	—½"
16	—7/16"

**ORNAMENTAL RIVETS****ROUND**

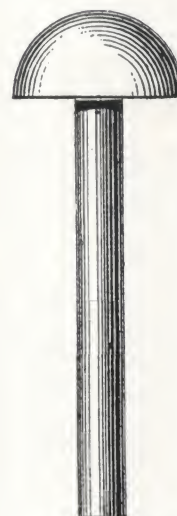
No.	Size
00000	—1½" dia.
0000	—1⅜" dia.
000	—1¼" dia.
00	—1⅛" dia.
0	—1" dia.
1	—¾" dia.
2	—¾" dia.
3	—⅝" dia.
4	—½" dia.
5	—⅜" dia.
41	—⅝" dia.
42	—¼" dia.

**OVAL**

No.	Size
111	—1" x ⅝"
110	—⅞" x 9/16"
109	—¾" x 7/16"
108	—⅝" x 7/16"
107	—½" x 5/16"
106	—⅜" x ¼"

**PYRAMID**

No.	Size
18	—1"
19	—¾"
20	—⅝"
21	—½"

**HALF ROUND**

No.	Size
26	—1"
27	—⅞"
28	—¾"
13	—⅝"
15	—½"
16	—7/16"

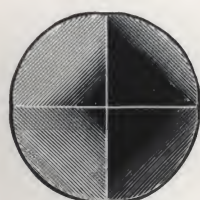
**CONE**

No.	Size
29	—1"
30	—⅞"
10	—9/16"

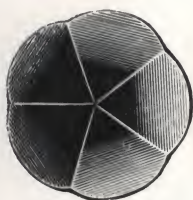


## FORGED WROUGHT IRON ORNAMENTAL NAILS

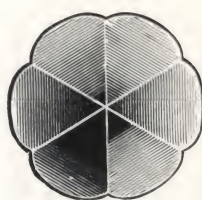
Illustrations Show Top and Side View



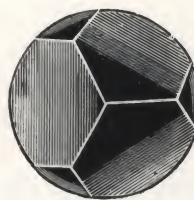
No. 50



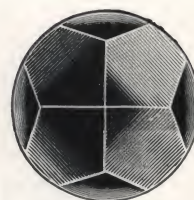
No. 51



No. 52



No. 53



No. 54



No. 55



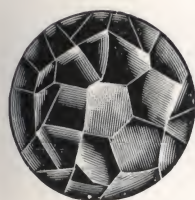
All Numbers are Carried in Stock in Sizes:

$\frac{3}{8}$ "  $\frac{1}{2}$ "  $\frac{5}{8}$ "  $\frac{3}{4}$ "  $\frac{7}{8}$ " 1"  $1\frac{1}{8}$ "  $1\frac{3}{16}$ "

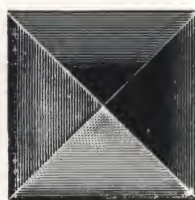
The length of the point, depending on size of the head, ranges from  $\frac{3}{4}$ " to  $1\frac{3}{4}$ "

**ILLUSTRATIONS ARE NOT ACTUAL SIZE**

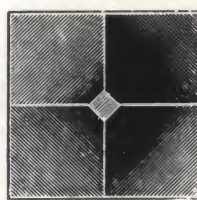
When ordering please state number and size wanted



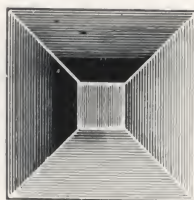
No. 56



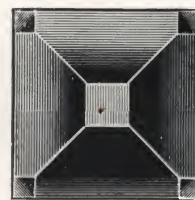
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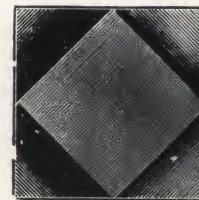
No. 63



No. 64



No. 65



No. 66



FORGED WROUGHT IRON NAILS are furnished with natural hand-hammered finish. They may be used advantageously for studding Church Doors, Wooden Chests, Furniture, floors, trim, hinge bands and other hardware.

FORGED WROUGHT IRON NAILS are also used for other decorative purposes such as forming rosettes in corners or panels, for fancy rivets on lighting fixtures, mirrors, tables, chairs, fireplaces, display fixtures, etc.



# MEMORANDUM

SUPPLEMENTAL DATA AND ILLUSTRATIONS MAY BE PASTED ON THIS PAGE

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## MISCELLANEOUS

THE following pages list that part of the JULIUS BLUM line which we cannot classify in separate sections.

We wish to emphasize the fact that we are always endeavoring to revise our designs and add to our materials to meet the requirements of changing conditions and forms of construction.

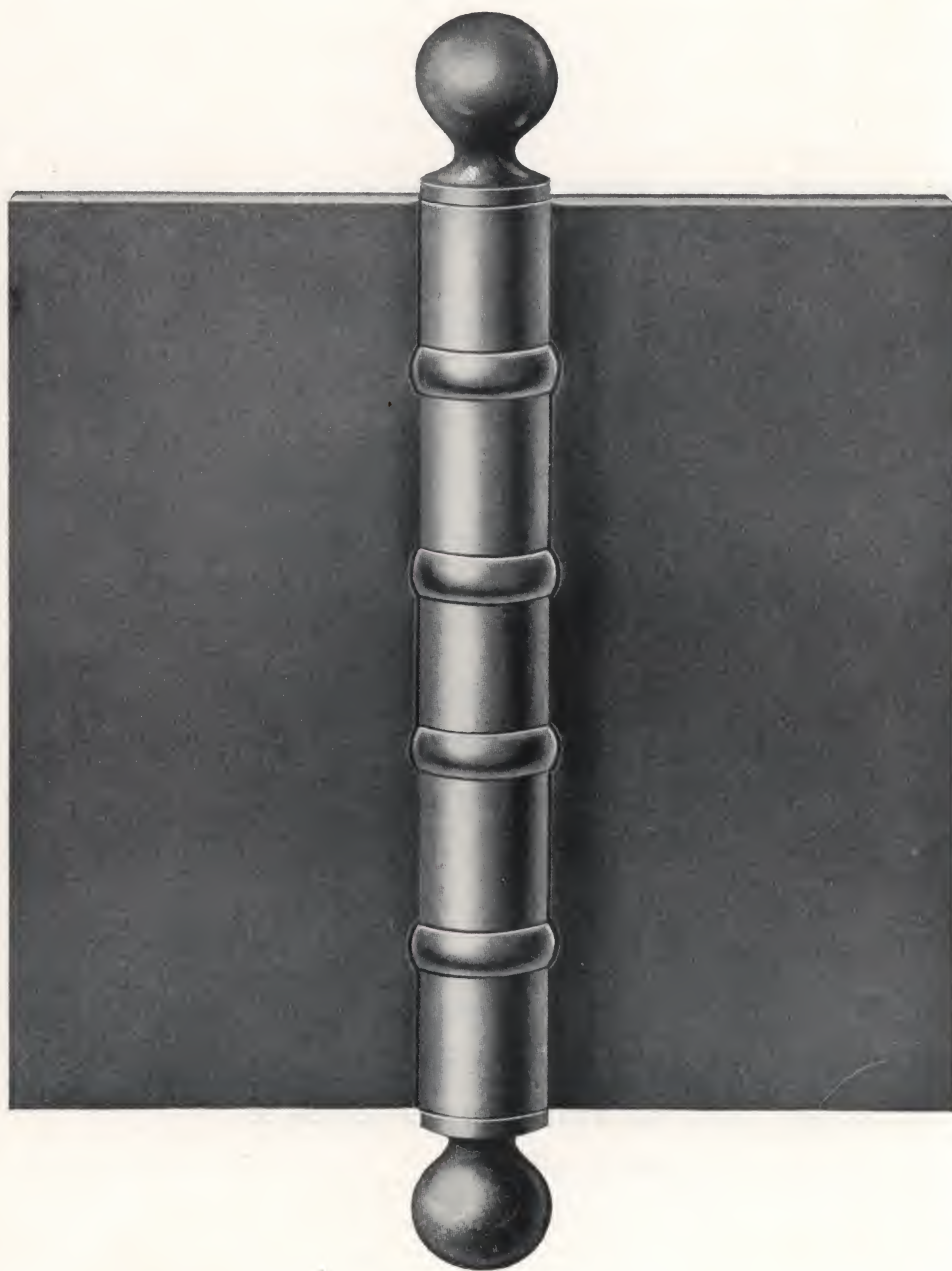
It is well to bear this in mind because due to the time involved in preparing, printing and distributing this catalog, it is quite likely that additions or revisions will have been made before it reaches your hands.

The Julius Blum & Co., Inc. organization has been trained to cope with your problems. We solicit your inquiries for any products allied to the metal working trades. It has been our policy to supply information as to the availability or source of supply for items we are not prepared to offer.



## EXTRA HEAVY PLAIN STEEL BALL BEARING BUTTS

(Blank—without screw holes)



Each Butt equipped with four Bronze ball bearing washers, which prevent the Butts from wearing at the joints and insure that doors will operate easily and without noise.

Carried in stock blank—without screw holes in sizes as follows:

### EXTRA HEAVY

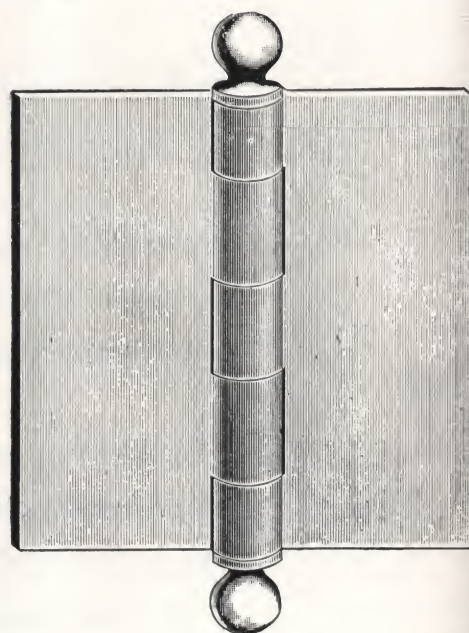
8" x 8"  
6" x 6"  
5" x 5"  
4½" x 4½"  
4" x 4"

### MEDIUM

6" x 6"  
6" x 5"

## Wrought Steel Loose Pin Butts

With Ball Tips



Carried in stock blank—without screw holes in sizes as follows:

2" x 2"  
2½" x 2½"  
3" x 3"  
3½" x 3½"  
4" x 4"



### WROUGHT STEEL FLUSH BOLTS

Carried in stock in lengths of 6" and 9".

Bolt has 1" throw, is ¾" square and has 1⅜" lip extension. Front plate 1" wide.



## HEAVY DUTY LOCKS



With Latch Only



With Latch and Dead Bolt

1  $\frac{1}{8}$ " Backset, overall depth 1  $\frac{3}{8}$ "

1  $\frac{3}{8}$ " Backset, overall depth 2  $\frac{1}{8}$ "

### REVERSIBLE FOR RIGHT AND LEFT HAND DOORS

Brass construction. Case threaded both sides for standard cylinder.  
Locks with dead bolt furnished with thumb knob to operate on inside.

These locks are of sturdy construction especially suited for use on Vestibule Doors, Gates, Steel Partition Doors, Window Guards, etc.

### TYPE "Q" LOCK

(Not Illustrated)

With dead bolt only  
(no latch)

1  $\frac{1}{2}$ " Backset, overall depth 2  $\frac{1}{2}$ "

1  $\frac{1}{8}$ " Backset, overall depth 1  $\frac{5}{8}$ "

Threaded on both sides for standard cylinder.

Operated by Thumb Knob on inside.

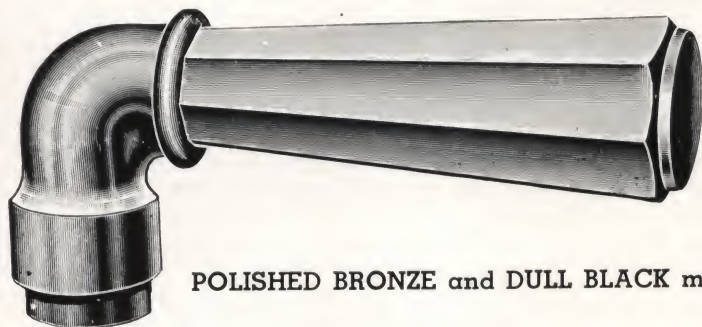
These locks are hand made, wrought brass construction throughout, no castings being used.

### CYLINDERS

1" or 1  $\frac{1}{4}$ " long — Standard threads

Each Cylinder furnished with 3 Keys

## LEVER HANDLES AND KNOBS



POLISHED BRONZE and DULL BLACK malleable iron



One Set consists of:

1 Lever, 1 Knob, 1 Swivel Spindle and 2 Escutcheons

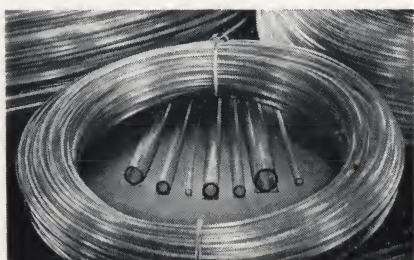
Also sold separately, and in sets of 2 Levers or 2 Knobs



## PLASTICS

We carry in stock, for immediate delivery, a multiplicity of Plastic items which are partially illustrated and described below.

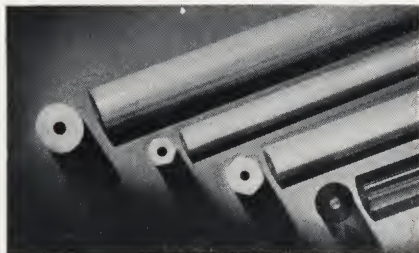
### TENITE II



### POLYSTYRENE

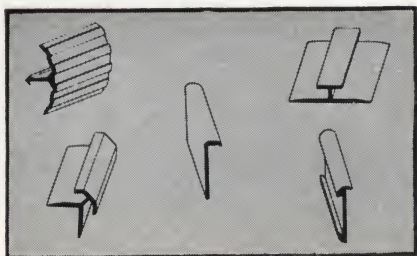
#### Plastic Tubing

Available in a complete line of standard wall and heavy wall thicknesses from  $\frac{3}{16}$ " O.D. up to and including 2" O.D. Special sizes and shapes in Round, Square, Oval, and Rectangular tubing may be obtained in Transparent, Translucent and Opaque Colors. Standard and special-size tubings manufactured to order in various types of plastic formulas.



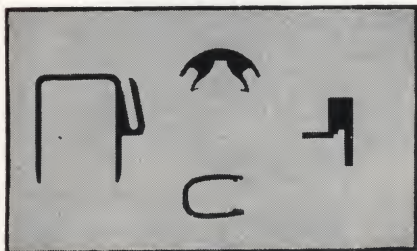
#### Hollow and Solid Rod

Used successfully for automatic screw machine parts, spacers, washers, unions, couplings, etc. Available in standard Hexagonal, Round, and Knurled in large range of sizes.



#### Functional Shapes

Suitable for use with rigid and flexible wall and floor-covering materials, such as, Plywood, Insulating Board, Linoleum, Glass, etc.



#### Industrial Shapes

These Shapes (four shown at left) offer permanency and durability of color in a choice of colors. Industrial Shapes are manufactured to special order in accordance with customer's specifications.

*Complete size and price schedules with descriptive literature will be furnished upon request*



## MACHINERY

We are recognized distributors for many nationally known manufacturers of all types of machinery and equipment for metal fabrication.

It has been our practice to present to the trade many tools which have helped to lower labor costs and simplify methods of manufacture.

We will gladly make recommendations on equipment for any special operations.

The following is a partial list of machinery and tools which we handle, many of which are carried in stock.

ANGLE SHEARS <i>and</i> NOTCHERS	HACK SAWS
BAND SAWS	HAMMERS
BAR SHEARS	HOISTS
BENDING MACHINES	PUNCHING MACHINES
BRAKES	PUNCHING <i>and</i> SHEARING MACHINES
CRANES	SAW BLADES
DRILLS	SHEARING MACHINES
ELECTRIC WELDERS	SPOT WELDERS
FORGES	SQUARING SHEARS
GRINDERS	THREADERS, BOLT <i>and</i> PIPE
HAND PUNCHES <i>or</i> SHEARS	PUNCHES, DIES, <i>etc.</i>

COPY OF OUR CATALOG "MACHINERY" WILL BE MAILED UPON REQUEST

## GENUINE SOAPSTONE STICKS

(METAL WORKERS CRAYONS)

HARD CLEAR SELECT WHITE SOAPSTONE

$\frac{1}{4}$ " square

$\frac{1}{4}$ " round

$\frac{1}{2}$ " x  $\frac{3}{16}$ " flat

SOLD BY THE BOX (144 STICKS) OR IN  $\frac{1}{2}$  CASE AND CASE LOTS — 24 BOXES IN CASE







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